

NAME OF PROJECT: **Town of Maysville, NC Municipal Building Renovations**
 ADDRESS: **404 Main Street, Maysville, NC 28555**
 OWNER OR AUTHORIZED AGENT: **Schumata Brown, Town Manager of Maysville** PHONE #: **910.743.4441** EMAIL: **townmanager@townofmaysville.org**
 OWNED BY: ☒ CITY/COUNTY ☐ PRIVATE ☐ STATE
 CODE ENFORCEMENT JURISDICTION: ☒ CITY: **Maysville** ☐ COUNTY: ☐ STATE:

2018 NC BUILDING CODE: ☐ NEW CONSTRUCTION ☐ SHELL/CORE ☐ 1ST TIME INTERIOR COMPLETIONS
☒ ADDITION ☐ PHASED CONSTRUCTION - SHELL CORE

2018 NC EXISTING BUILDING CODE:
(CHECK ALL THAT APPLY)

☐ PRESCRIPTIVE ☐ ALTERATION LEVEL I ☐ HISTORIC PROPERTY
☐ REPAIR ☐ ALTERATION LEVEL II ☐ CHANGE OF USE
☐ CHAPTER 14 ☒ ALTERATION LEVEL III

RISK CATEGORY (Table 1604.5): **CURRENT:** ☐ I ☒ II ☐ III ☐ IV
PROPOSED: ☐ I ☒ II ☐ III ☐ IV

BASIC BUILDING DATA:

CONSTRUCTION TYPE: (Check all that apply)
SPRINKLERS: ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ☒ V-B
STAIRWELLS: ☒ NO ☐ PARTIAL ☐ YES
STAIRTIMES: ☒ NO ☐ YES
FIRE DISTRICT: ☒ NO ☐ YES
SPECIAL INSPECTIONS REQUIRED: ☒ NO ☐ YES

CLASS: ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D ☐ I ☐ II ☐ WET ☐ DRY

FLOOD HAZARD AREA: ☐ NO ☐ YES

(While most of the building is PEMB with wood some partitions, the additional fire bay is wood framed.)

GROSS BUILDING AREA:				
LOCATION	EXISTING (SQ. FT.)	BLDG. DEMOLITION (SQ. FT.)	BLDG. ADDITION (SQ. FT.)	SUB TOTAL
GROUND LEVEL	5,750 sf	- sf	245 sf	5,945 sf
MEZZANINE	~1320 sf	-	-	
TOTAL:				5,945 sf

ALLOWABLE AREA

PRIMARY OCCUPANCY:

ASSIGNMENT: ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5 (secondary occupancy Community Hall with >50)

BUSINESS: ☒

EDUCATIONAL: ☐

FACTORY: ☐ F-1 Moderate ☐ F-2 Low

HAZARDOUS: ☐ H-1 Detonate ☐ H-2 De/Regulate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM

INSTITUTIONAL: ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4

I-1 USE CONDITION: ☐ 1 ☐ 2

I-2 USE CONDITION: ☐ 1 ☐ 2

I-3 USE CONDITION: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

MERCANTILE: ☐

RESIDENTIAL: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4

STORAGE: ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled

☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage

UTILITY & MISC.: ☐

Accessory Occupancy Classification(s): _____
 Incidental Uses: (Table 509) _____
 The separation is not exempt as a Non-Separated Use (see exceptions).
 Special Uses (Chapter 4 - List Code Section) _____
 Special Provisions (Chapter 5 - List Code Section) _____

MIXED OCCUPANCY: ☒ YES ☐ NO SEPARATION: **2-hr** 1-hr EXCEPTION: _____

☐ NON-SEPARATED USE (508.3)
 THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

☒ SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS
 FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

ACTUAL AREA OF OCCUPANCY A	+ ACTUAL AREA OF OCCUPANCY B	=	< 1.00
1016 (A-3 Use)	4929 (B-use)	+ - -	0.7170 < 1.00
6000	9000	+ - -	
0.1693	0.5477		

STORY NUMBER	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLED SQ. FT. AREA	(C) AREA FOR FRONTAGE INCREASE	(D) ALLOWABLE AREA PER STORY OR UNLIMITED
1	A-3 Use (Community Hall)	1016	6,000		
1	B Use (Office)	4929	9000		

FRONTAGE AREA INCREASE FROM SECTION 506.2 ARE COMPUTED THUS:

- PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = all (F)
- TOTAL BUILDING PERIMETER = all (P)
- RATIO (F/P) = 1.0 (F/P)
- W = MINIMUM WIDTH OF PUBLIC WAY = 30 (W)
- Percent of frontage increase $\{ = 100 \{ (F/P - 0.25) \times W/30 =$ 75 (%)

mixed use

¹ UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
² MAXIMUM BUILDING AREA = TOTAL NUMBER OF STOREYS IN THE BUILDING X D (MAXIMUM 3 STOREYS) [506.2].
³ MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.
⁴ FRONTAGE/REAR IS BASED ON THE UNSCREENED SIDE AREA WITHIN TABLE 506.

FROM MORE FERTILE WATERS OF THE GROUND RISES FIRST THERE IN THE SOIL.

ALLOWABLE HEIGHT:	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
	BUILDING HEIGHT IN FEET (Table S04.3)	40'	20-4"
BUILDING HEIGHT IN STORIES (Table S04.4)	1	1	

BUILDING ELEMENT	FIRE SEPARATION (DISTANCE) (FEET)	RATING		DETAIL # & SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D	PROVIDED (W/... + REDUCTION)				
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES		0	0				
BEARING WALLS							
EXTERIOR		0	0				
NORTH							
EAST							
WEST							
SOUTH							
INTERIOR		0	0				
NON-BEARING WALLS & PARTITIONS		0	0				
EXTERIOR WALLS		0	0				
NORTH							
EAST							
WEST							
SOUTH							
INTERIOR WALLS AND PARTITIONS		0	0				
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS		0	0				
FLOOR CEILING ASSEMBLY		0	0				
COLUMNS SUPPORTING FLOORS		0	0				
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS		0	0				
ROOF CEILING ASSEMBLY		0	0				
COLUMNS SUPPORTING ROOFS							
SHAFT ENCLOSURES - EXIT		N/A	N/A				
SHAFT ENCLOSURES - OTHER		N/A	N/A				
CORRIDOR SEPARATION (EGRESS)		N/A	N/A				
OCCUPANCY/FIRE BARRIER SEPARATION		2	2	T1-4	U419		
PARTY/FIRE WALL SEPARATION		N/A	N/A				
SMOKE BARRIER SEPARATION		N/A	N/A				
SMOKE PARTITION		N/A	N/A				
TENANT/DWELLING UNIT/ SLEEPING UNIT SEPARATION		N/A	N/A				
INCIDENTAL USE SEPARATION		N/A	N/A				

* INDICATE SECTION NUMBER PERMITTING REDUCTION

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
N/A			

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
EXIT SIGNS:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
FIRE ALARM:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
SMOKE DETECTION SYSTEMS:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
PANIC HARDWARE:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
CARBON MONOXIDE DETECTION:	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES

☐ Partial _____

<input type="checkbox"/> Fire and/or smoke rated wall locations (Table 7.7) <input type="checkbox"/> Assumed and real property line locations (if not on the site plan) <input type="checkbox"/> Exterior wall opening area with respect to distance to assumed property lines (705.8) <input checked="" type="checkbox"/> Occupancy (use for each area as it related to occupant load calculation (Table 1004.1.2) <input type="checkbox"/> Occupant loads for each area <input type="checkbox"/> Exit access travel distances (1017) <input type="checkbox"/> Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) <input type="checkbox"/> Dead end lengths (1000.4) <input type="checkbox"/> Clear exit widths for each exit door <input checked="" type="checkbox"/> Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)	<input checked="" type="checkbox"/> Actual occupant load for each exit door <input type="checkbox"/> A separate schematic plan indicating where the rated floor/ceiling and/or roof structure is provided for purposes of occupant separation <input type="checkbox"/> Location of doors with panic hardware (1010.1.10) <input type="checkbox"/> Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) <input type="checkbox"/> Location of doors with electromagnetic egress locks (1010.1.9.9) <input type="checkbox"/> Location of doors equipped with hold-open devices <input type="checkbox"/> Location of emergency escape windows (1030) <input type="checkbox"/> The square footage of each fire area (202) <input type="checkbox"/> The square footage of each smoke compartment for Occupancy Classification 2 (407.5.2) <input type="checkbox"/> Note any code exceptions or table notes that may have been utilized regarding the items above
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TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
0							

LOT OR PARKING AREA	TOTAL NUMBER OF PARKING SPACES		NUMBER OF ACCESSIBLE SPACES PROVIDED			TOTAL # OF ACCESSIBLE SPACES PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESSIBLE	SPACES WITH 132" ACCESSIBLE	VAN SPACES WITH 8' ACCESSIBLE	
N/A						
TOTAL:						

USE: 8 (office use) AND A-3 (Assembly)		WATER CLOSETS			URINALS			LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
SPACE		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR		ACCESSIBLE	
	EXISTING	1	1			1	1						
	REQUIRED	2	2	-	-	2	2	-		1	1		
	TOTAL PROVIDED	2	2	-	-	2	2	-		1	1		

REQUIRED:
Business Use (1/25 for the 37 office occupants see occupancy counts on life safety plan)...since only one per sex is required, these may be labeled Unisex if desired.

A-3 Use (1/125 for men and 1/65 for women)

SPECIAL APPROVALS: SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPL, DHS, ICC, ETC., DESCRIBE BELOW)

N/A

ENERGY REQUIREMENTS:

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EXEMPT BUILDINGS SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: ☐ NO ☒ YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)

EXEMPT BUILDING: ☒ NO ☐ YES (PROVIDE CODE OR STATUTORY REFERENCE): _____

CLIMATE ZONE: ☒ 3A ☐ 4A ☐ 5A

METHOD OF COMPLIANCE: ENERGY CODE ☐ PERFORMANCE ☒ PRESCRIPTIVE

ASHRAE 90.1 ☐ PERFORMANCE ☐ PRESCRIPTIVE

(IF "OTHER" SPECIFY SOURCE HERE) _____

THERMAL ENVELOPE (Prescriptive method only)

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY:

U-VALUE OF TOTAL ASSEMBLY: _____

R-VALUE OF TOTAL INSULATION: _____

FLOORS (FLOOR/CEILING ASSEMBLY)

DESCRIPTION OF ASSEMBLY:

U-VALUE OF TOTAL ASSEMBLY: _____

R-VALUE OF TOTAL INSULATION: _____

FLOORS SLAB ON GRADE

DESCRIPTION OF ASSEMBLY:

U-VALUE OF TOTAL ASSEMBLY: _____

R-VALUE OF TOTAL INSULATION: _____

Horizontal / vertical requirement: _____

Slab heater (Y/N) _____

EXTERIOR WALLS (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY:

U-VALUE OF TOTAL ASSEMBLY: _____

R-VALUE OF INSULATION: _____

OPENING (windows or doors with glazing)

U-value of assembly: _____

Solar heat gain coefficient: _____

projection factor: _____

Door R-Values: _____

DESIGN LOADS:

IMPORTANCE FACTORS: WIND: (I-W) _____
SNOW: (I-S) _____
SEISMIC: (I-E) _____

LIVE LOADS: ROOF: _____ psf
MEZZANINE: _____ psf
FLOOR: _____ psf

GROUND SNOW LOAD: _____ psf

WIND LOAD: BASIC WIND SPEED _____ mph (ASCE-7)
EXPOSURE CATEGORY _____

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F

SEISMIC DESIGN PARAMETERS:
OCCUPANCY CATEGORY (TABLE 10.2-1) _____
SPECTRAL RESPONSE ACCELERATION (ASCE 7) S_{DS} S_{D1} = _____
SEISMICITY (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F

DESIGN BASIS: ☐ PRESUMPTIVE ☐ HISTORICAL DATA

See Structural (for small addition, balance is missing)

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT		MECHANICAL SPACING CONDITIONING SYSTEM	
THERMAL ZONE	WINTER DRY BULB:	INDOOR DESIGN DRY BULB	INDOOR DESIGN DRY BULB
	SUMMER DRY BULB:		INDOOR DESIGN WET BULB
			COOLING EFFICIENCY
			SIZE CAPACITY OF UNIT
INTERIOR DESIGN CONDITIONS	WINTER DRY BULB:	BOILER	TOTAL BOILER OUTPUT, IF OVERSIZED, STATE REASON
	SUMMER DRY BULB:		CHILLER
	RELATIVE HUMIDITY:		TOTAL CHILLER CAPACITY, IF OVERSIZED, STATE REASON
BUILDING HEATING LOAD:		LIST EQUIPMENT EFFICIENCIES	
BUILDING COOLING LOAD:			

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

ENERGY CODE	<input type="checkbox"/> PERFORMANCE	<input type="checkbox"/> PRESCRIPTIVE
ASHRAE 90.1	<input type="checkbox"/> PERFORMANCE	<input type="checkbox"/> PRESCRIPTIVE

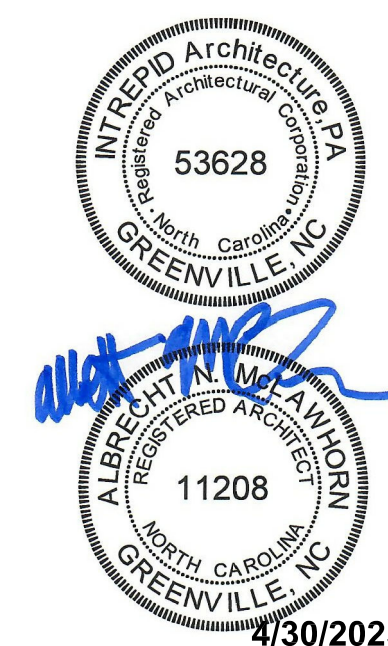
See MEP Sheets

- ☐ S06.2.1 More Efficient Mechanical Equipment
- ☐ S06.2.2 Reduced Lighting Power Density
- ☐ S06.2.3 Energy Recovery Ventilation Systems
- ☐ S06.2.4 Higher Efficiency Service Water Heating
- ☐ S06.2.5 On-Site Supply Renewable Energy
- ☐ S06.2.6 Automatic Daylighting Control Systems

Mailing Address:
2104 CROOKED CREEK RD.
GREENVILLE, NC 27858

Town of Maysville Municipal Building Renovations

404 Main St.
Maysville, NC 28555



THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS
ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN
THE PROPERTY OF THE ARCHITECT. THEY HAVE BEEN
PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE
USED IN CONJUNCTION WITH ANY OTHER PROJECTS
WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT.
©INTREPID Architecture 2025

SHEET NAME:

APPENDIX B - BUILDING CODE SUMMARY

PHASE:
Construction Documents

REVISIONS		
-	-	-
-	-	-

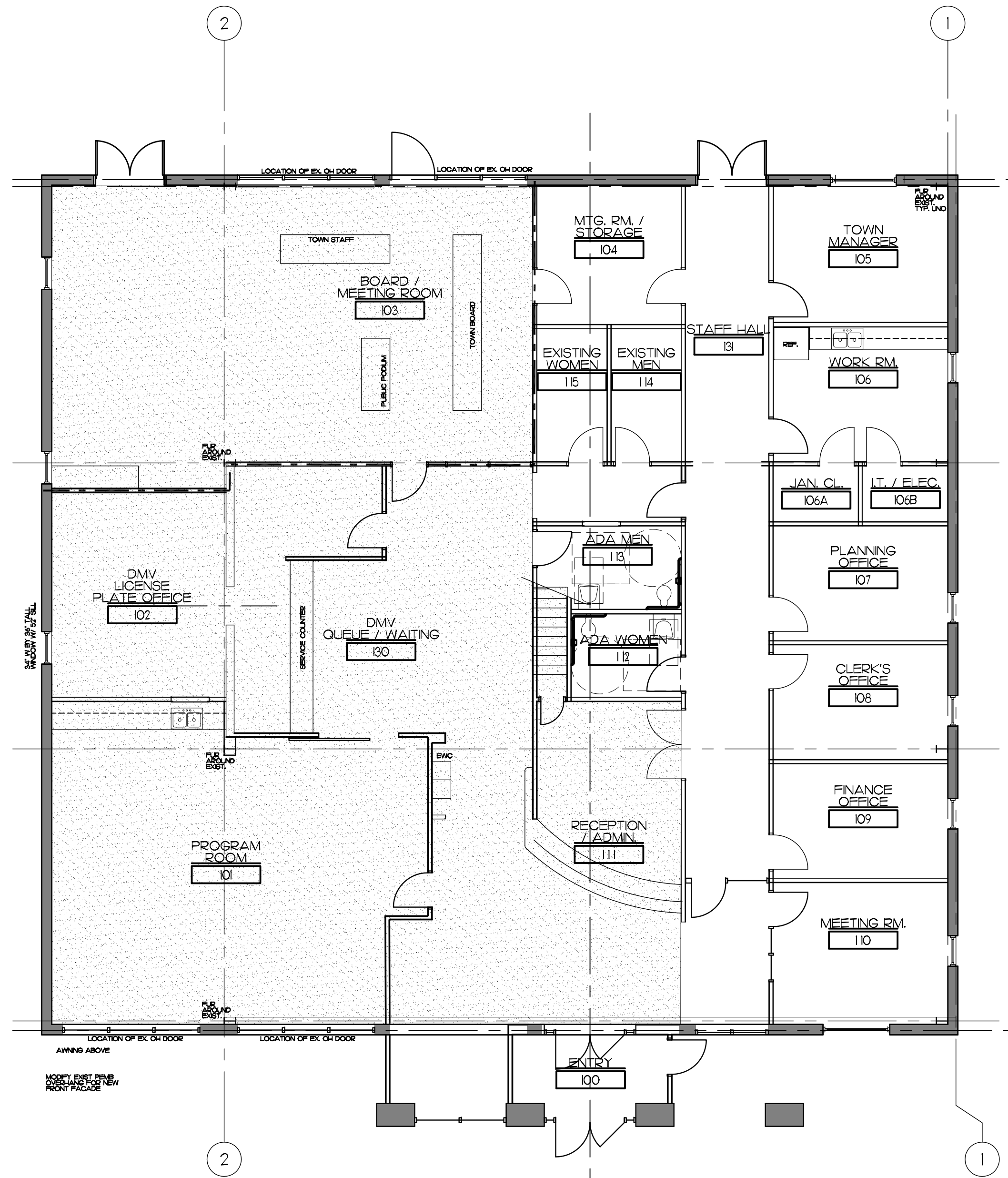
ISSUE DATE: 4/30/2025

PROJECT #: 24008

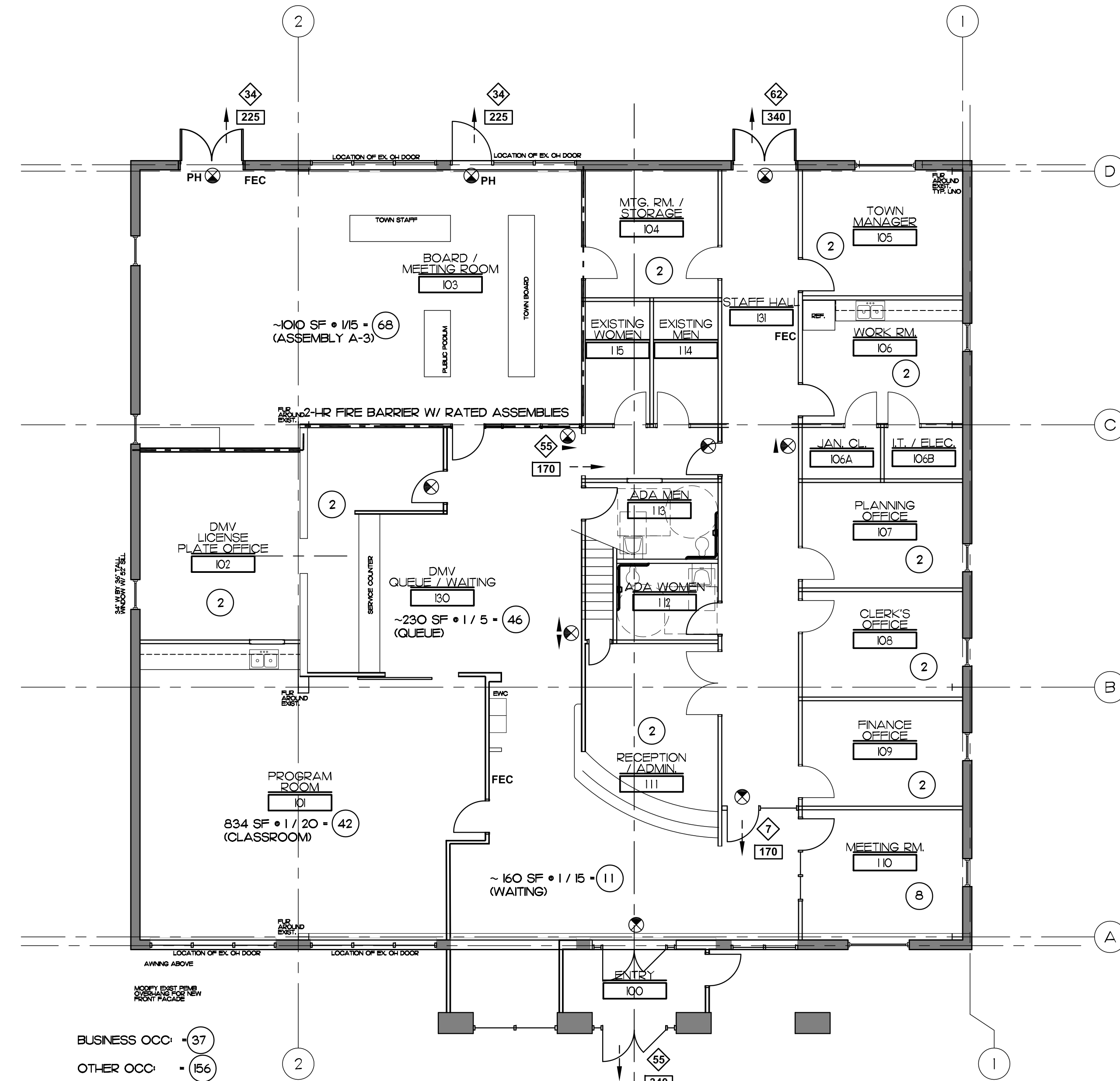
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SHEET NUMBER

T1-2



Life Safety Plan - Phasing Diagram
1/8" = 1'-0"



Life Safety Plan - Ground Floor
1/8" = 1'-0"

Existing Mechanical Platform (only modified for new mechanical)
3/32" = 1'-0"

LIFE SAFETY SYMBOLS

- ◇ ACTUAL EXIT DOOR OCCUPANT LOAD
- EXIT DOOR CAPACITY
- ⊗ ILLUMINATED EXIT SIGN
- MAX. TRAVEL DISTANCE
- 2-HR FIRE BARRIER
- PH PANIC HARDWARE
- F.E.C. FIRE EXTINGUISHER CABINET (OR F.E. FIRE EXTINGUISHER W/ HOOK ONLY) PROVIDE TYPE ABC EXTINGUISHERS IN CABINETS MOUNTED NOT HIGHER THAN 5'-4" AFF. TO HANDLE OF CABINET AND/OR EXTINGUISHER. MINIMUM OF 3 LOCATIONS. J.L. INDUSTRIES 24X9.5X4.75 UNO. ALL SHALL BE ADA COMPLIANT.

OCCUPANCY CALCULATION & CODE NARRATIVE

PRIOR TO CONSTRUCTION, MAYSVILLE WILL VACATE THE PHASE I AREA INCLUDING THE MEZZANINE AND AREAS ON THE FRONT SIDE OF THE BUILDING. THIS WILL ALLOW THESE AREAS TO BE AVAILABLE FOR PHASE I CONSTRUCTION (SEE DIAGRAM 2 ON THIS SHEET). WHILE UTILITIES, ETC. THAT SERVICE THE PHASE I WORK AREAS MAY REQUIRE TIE-INS, INTERRUPTIONS, ETC., ALL SUCH ITEMS SHALL BE COORDINATED IN ADVANCE PER THE SPECIFICATION SUCH THAT MAYSVILLE CAN REMAIN OPERATIONAL WITHOUT MODIFICATION TO NORMAL BUSINESS OPERATIONS.

IT IS ANTICIPATED THAT THE PHASE I CONSTRUCTION WILL REQUIRE THE TOWN OF MAYSVILLE TO ACCESS THE OFFICE/ADMINISTRATIVE SIDE OF THE BUILDING THROUGH THE EXISTING REAR ENTRY (INTO THE EXISTING BOARD ROOM). A SECONDARY MEANS OF EGRESS FOR SUCH AREAS WILL NEED TO BE COORDINATED WITH CONSTRUCTION.

DURING PHASE 2 WORK, THE EXISTING OFFICE/ADMINISTRATIVE SIDE OF THE BUILDING WILL RELOCATE INTO THE AREAS RENOVATED BY PHASE I. SOME OF THESE RELOCATIONS WILL BE TO THE NEW PERMANENT LOCATIONS (BOARD ROOM, DMV, MAIN RECEPTION AREA), WHILE OTHERS SUCH AS CRITICAL OFFICE FUNCTIONS WILL RELOCATE ON A TEMPORARY BASIS UNTIL PHASE 2 IS COMPLETE.

THROUGHOUT THE DURATION OF THE PROJECT, CODE COMPLIANT EGRESS MUST BE MAINTAINED. GC SHALL FURNISH A LOGISTICS PLAN WITH THE SOV AND PROJECT SCHEDULE.

THE EXISTING GENERATOR WILL BE DISCONNECTED FROM PHASE I AREAS SUCH THAT PHASE I WORK CAN OCCUR. THE GENERATOR SHALL SERVE THE BUILDING IN SOME CAPACITY (TO BE APPROVED BY OWNER) UNTIL A NEW FEED TO THE NEW FIRE STATION GENERATOR CAN BE INSTALLED.

THE MUNICIPAL BUILDING WILL HOUSE A NUMBER OF DIFFERENT FUNCTIONS, WITH THE EXCEPTION OF THE BOARD ROOM, THE BALANCE OF SPACES ARE ALL CLASSIFIED AS 'B-USE' SPACES SUPPORTING THE MUNICIPAL FUNCTIONS OF THE BUILDING.

THE A-3 USE BOARD ROOM IS SEPARATED FROM THE BALANCE OF THE BUILDING WITH A NEW 2-HR FIRE BARRIER.

ALL REQUIRED EGRESS FROM THIS SPACE DISCHARGES DIRECTLY TO THE EXTERIOR, THEREBY ALLOWING THE BALANCE OF THE BUILDING TO AVOID NEEDING RATED CORRIDORS.

THE EXISTING MEZZANINE SPACE WILL CONTINUE TO SERVE AS A 'MECHANICAL MEZZANINE', WHEREBY HEAD CLEARANCES, STRUCTURAL LOADS, ETC. ARE REMAINING AS IS.

WHILE SOME OF THE EXISTING PEMB GIRTS ARE BEING REMOVED TO ACCOMMODATE THE BOARD ROOM, THE EXISTING CABLE BRACE BAY HAS NOT BEEN ALTERED.

IT IS THE INTENT THAT ANY NEW EXTERIOR CONSTRUCTION WILL MEET CURRENT CODES, AND THAT MODIFICATIONS TO EXISTING CONSTRUCTION WILL NOT RENDER SUCH SPACES STRUCTURALLY DIFFERENT THAN THEIR EXISTING CONDITIONS.

INFILL OF EXISTING TRUCK BAY OPENINGS SHALL CONFORM TO CURRENT ENERGY CODES.

ALL WORK MORE THAN FIVE FEET BEYOND THE BUILDING FACE SHALL BE INCLUDED IN THE CONCURRENT NEW FIRE STATION PROJECT. SHOULD THIS PROJECT'S SCOPE REQUIRE UTILITY ALTERATIONS BE REQUIRED.

REVISIONS		
1		
2		
3		
4		
5		

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-1501 Certified for Canada

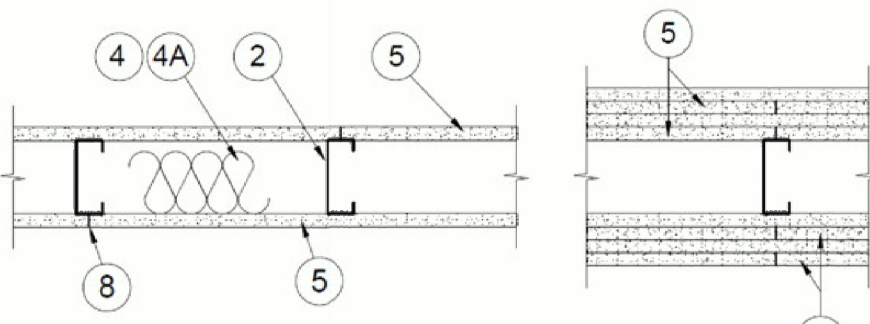
See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variations

See General Information for Fire Resistance Ratings - CAN/ULC-1501 Certified for Canada
Design Criteria and Allowable Variations

Design No. U419

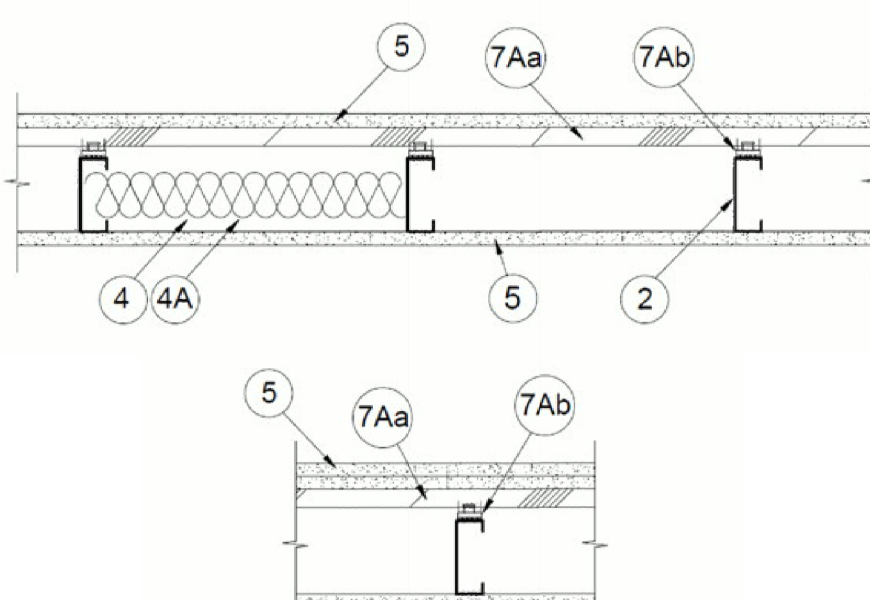
May 09, 2025

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4, 5 & 5 through 55)
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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BXUV/U419 | UL Product IQ



1/15

1. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 28, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CEMCO, LLC — Viper25™ Track
CEMCO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner** — (Not Shown) — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC max.
CEMCO, LLC — Viper20™ Track
CEMCO, LLC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners** — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.
ALISTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20
CONSOLIDATED FABRICATORS CORP. BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

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BXUV/U419 | UL Product IQ

20. **Framing Members* — Steel Studs** — (Not Shown) — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALISTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20
CONSOLIDATED FABRICATORS CORP. BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20
TELLING INDUSTRIES L.L.C. — Type SUPREME D24/30EQD and Type SUPREME D20
UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 24 — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners** — (Not Shown, As an alternate to Item 1) — For use with Items 25, 5F or 5G or 5I only, channel shaped, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
CLARKDIERICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L.L.C. — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L.L.C. — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L.L.C. — TH-S ProSTUD

2/15

2E. **Framing Members* — Steel Studs** — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type UUX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIERICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L.L.C. — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L.L.C. — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L.L.C. — TH-S ProSTUD

2F. **Framing Members* — Steel Studs** — (Not Shown) — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs** — (Not Shown) — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in. less than the assembly height.
STUCCO BUILDING SYSTEMS — KESLMOUNT Sound Clips

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21. **Framing Members* — Steel Studs** — (Not Shown, As an alternate to Item 2) — Fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L.L.C. — TRUE-STUD™

1G. **Framing Members* — Floor and Ceiling Runner** — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUCCO BUILDING SYSTEMS — KESLMOUNT Sound Clips

1H. **Floor and Ceiling Runners** — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100
IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners** — (Not Shown, As an alternate to Item 1) — For use with Item 2H, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L.L.C. — TRUE-TRACK™

2J. **Framing Members* — Steel Studs** — (Not Shown, As an alternate to Item 2) — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OUMAR SUPPLY INC — PRIMESTUD

2K. **Framing Members* — Steel Studs** — (Not Shown, As an alternate to Item 2) — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudMax™

2N. **Framing Members* — Steel Studs** — (Not Shown, As an alternate to Item 2) — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, L.L.C. — AlphaSTUD

2O. **Framing Members* — Steel Studs** — (Not Shown, As an alternate to Item 2) — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Upp Wall Stud

2P. **Framing Members* — Steel Studs** — (Not Shown, As an alternate to Item 2) — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs** — (Not Shown) — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CEMCO, LLC — Viper X

2R. **Framing Members* — Steel Studs** — (Not Shown — Alternate to Item 2, For use with Item 1P) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1P), Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

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2S. **Framing Members* — Steel Studs** — (Not Shown) — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
JIC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6"

IRONLINE METALS LLC — Bantam Stud

2T. **Framing Members* — Steel Studs** — (Not Shown) — In lieu of Item 2 — For use with Item 1R, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

IRONLINE METALS LLC — Bantam Stud

3. **Wood Structural Panel Sheathing** — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing plywood complying with DGC P51 or PS2, or APA Standard PR9-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. In the perimeter and 12 in. OC. In the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See **Batts and Blankets** (R50V or R52Z) Categories for names of Classified companies.

4A. **Batts and Blankets*** — (Optional — as an alternate to Item 4) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (R50V or R52Z) Categories for names of Classified companies.

4B. **Fiber, Sprayed*** — (Optional — as an alternate for Items 4 or 4A, for use with Type UUX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcu to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).

4C. **Foamed Plastic*** — (As an alternate for Items 4A, 4B or 4C, for use with Item 5Q) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

CARLISLE SPRAY FOAM INSULATION — Type SealTite ONE, SealTite Pro Closed Cell, OC, SealTite Pro Open Cell, OC, SealTite Pro OC, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamulate Closed Cell, Foamulate CCK, Foamulate 70, Foamulate 70, Foamulate 70

4D. **Foamed Plastic*** — (As an alternate for Items 4A, 4B or 4C, for use with Item 5Q) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enerflex® M4, Enerflex® Q, FE178® Spraytite® 178, Spraytite® 81206, Walithe® 200, Walithe® US, Walithe® US, N. Walithe HP®, FE137® FE138®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort X, Walithe® XL, Walithe® MAX, Walithe® LVP, Walithe® Pure and Enerflex® Max

4E. **Foamed Plastic*** — (As an alternate to Item 4 for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

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BASF CORP - Walithe® X, 5

5. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type UUX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall					
Rating, Hr	Min Stud Depth, In.	Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)	
1	3-1/2		1 layer, 5/8 in. thick	Optional	
1	2-1/2		1 layer, 1/2 in. thick	Optional	1-1/2 in.
1	1-5/8		1 layer, 3/4 in. thick	Optional	
2	1-5/8		2 layers, 1/2 in. thick	Optional	
2	1-5/8		2 layers, 5/8 in. thick	Optional	
2	3-1/2		1 layer, 3/4 in. thick	Optional	3 in.
3	1-5/8		3 layers, 1/2 in. thick	Optional	
3	1-5/8		2 layers, 3/4 in. thick	Optional	
3	1-5/8		3 layers, 5/8 in. thick	Optional	
4	1-5/8		4 layers, 5/8 in. thick	Optional	
4	1-5/8		4 layers, 1/2 in. thick	Optional	
4	2-1/2		2 layers, 3/4 in. thick	Optional	2 in.

CEC INC — 1/2 in. thick Type I-P-X2 or I-P-C-A-R, 5/8 in. thick Type AR, C, I-P-AR, I-P-X1, I-P-X2, I-P-C-A-R, SCX, SHX, ULX, WRX or WRC, 3/4 in. thick Types I-P-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGHOLLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, I-P-X2, I-P-C-A-R or WRC, 5/8 in. thick Type SCX, SHX, ULX, WRX, I-P-X1, AR, C, FRX-X, I-P-AR, I-P-X2, I-P-X3, 3/4 in. thick Types I-P-X3 or ULTRACODE

USGB BORAL DRYWALL SFZ LLC — 1/2 in. Type C, 5/8 in. Types C, SCX, SCX, ULTRACODE

USGB MEXICO S A DE CV — 1/2 in. thick Type C, I-P-X2, I-P-C-A-R or WRC, 5/8 in. thick Type AR, C, I-P-AR, I-P-X1, I-P-X2, I-P-C-A-R, SCX, SHX, WRX or 3/4 in. thick Types I-P-X3 or ULTRACODE

When Item 7B, **Steel Framing Members*** is used, Nonbearing Wall Rating is limited to 1 hr. Min. stud depth is 3-1/2 in. min. thickness of insulation Item 4 is 8 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of wall without furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of wall without furring channels as described in Item 6.

5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CEC INC — Type SHX

UNITED STATES GYPSUM CO — Type FRX-X, SHX

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USGB MEXICO S A DE CV — Type SHX

5B. **Gypsum Board*** — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in. or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. or 3/4 in., may be used as gypsum alternate to 5/8 in. or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For 2 layer assemblies inner layer attached to studs over inner layer with 2-5/8 in. long steel screws spaced 8 in. OC.

5C. **Gypsum Board*** — (For Use With Item 2B) — Rating Limited to 1 Hour, 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) — The gypsum board is to be installed on each side of the studs with 1 in. long Type 5 coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) — The gypsum board is to be installed on each side of the studs with 1 in. long Type 5 coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the studs and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section V of Volume 1 in the Fire Resistive Directory.
CEC INC — Type SCX, UUX

THE SIAM GYPSUM INDUSTRY (SONGHOLLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SCX, UUX

USGB BORAL DRYWALL SFZ LLC — Type SCX

USGB MEXICO S A DE CV — Type SCX

USGB MEXICO S A DE CV — Type SCX

USGB MEXICO S A DE CV — Type SCX

USGB MEXICO S A DE CV — Type SCX

USGB MEXICO S A DE CV — Type SCX

USGB MEXICO S A DE CV — Type SCX

USGB MEXICO S A DE CV — Type SCX

USGB MEXICO S A DE CV — Type SCX

5D. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CEC INC — Type UUX
UNITED STATES GYPSUM CO — Type UUX
USGB BORAL DRYWALL SFZ LLC — Type UUX
USGB MEXICO S A DE CV — Type UUX

5E. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO. INC, D&A NELEC — Nelec

5F. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only. Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type 5 screws spaced 8 in. OC.

5G. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CEC INC — Type UUX
UNITED STATES GYPSUM CO — Type UUX
USGB BORAL DRYWALL SFZ LLC — Type UUX
USGB MEXICO S A DE CV — Type UUX

5H. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5I. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5J. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5K. **Gypsum Board*** — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5L. **Gypsum Board*** — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5M. **Gypsum Board*** — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

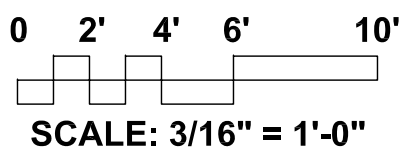
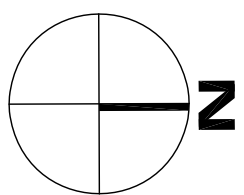
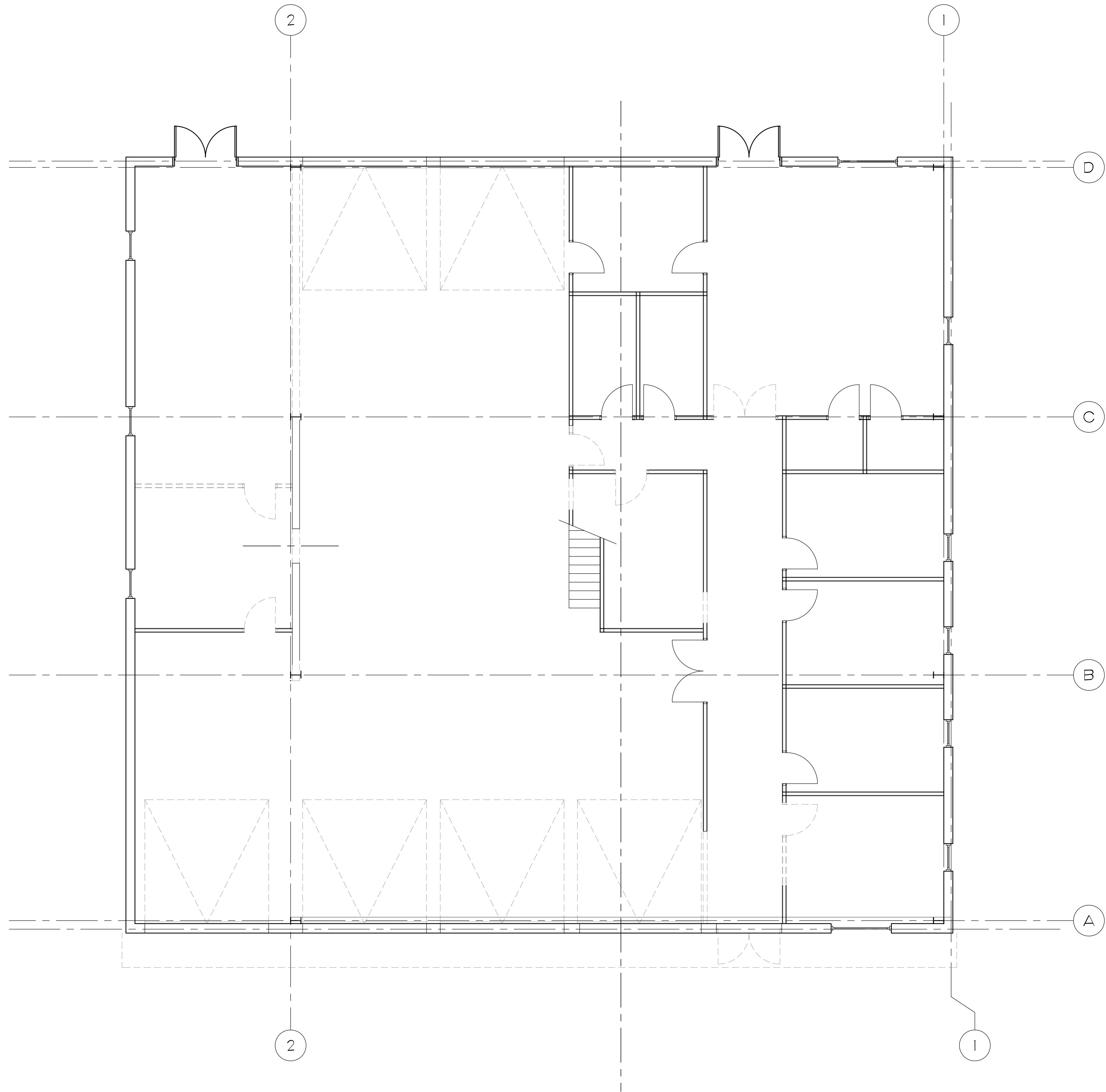
5N. **Gypsum Board*** — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5O. **Gypsum Board*** — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5P. **Gypsum Board*** — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5Q. **Gypsum Board*** — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6) by 1-1/4 in. long blue head fire drillier steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5R. **Gypsum**



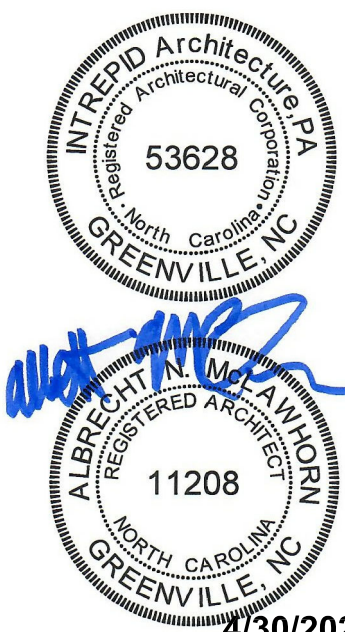
SCALE: 3/16" = 1'-0"

Demolition Floor Plan

3/16" = 1'-0"

1

Town of Maysville
Municipal Building Renovations
404 Main St.
Maysville, NC 28555



4/30/2025
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SHEET NAME:

FLOOR PLAN

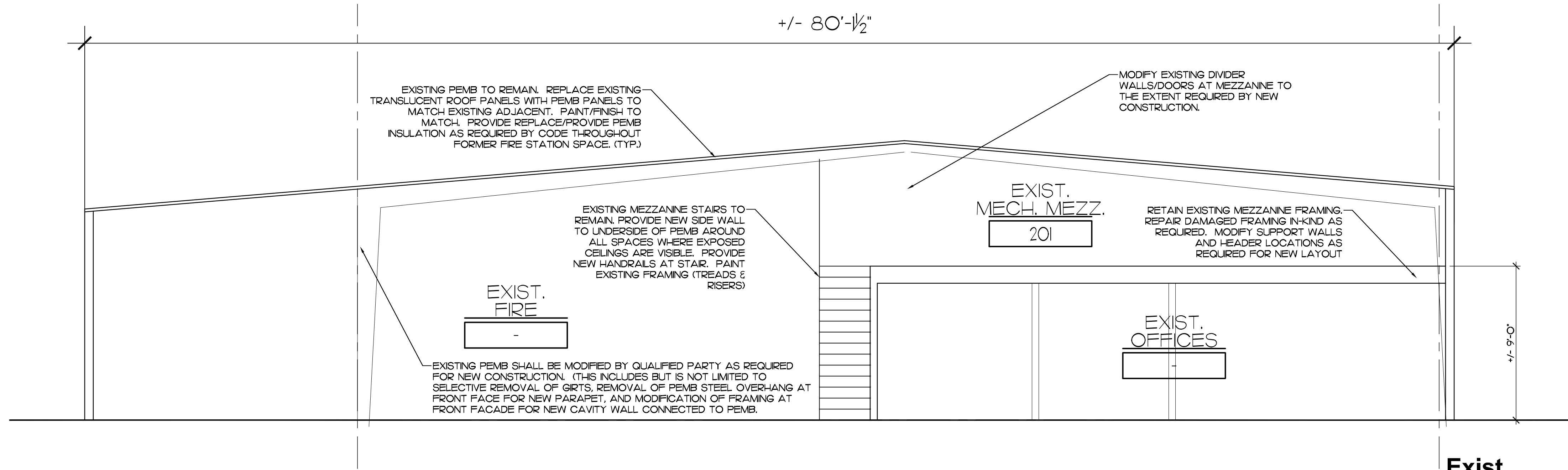
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Construction Documents

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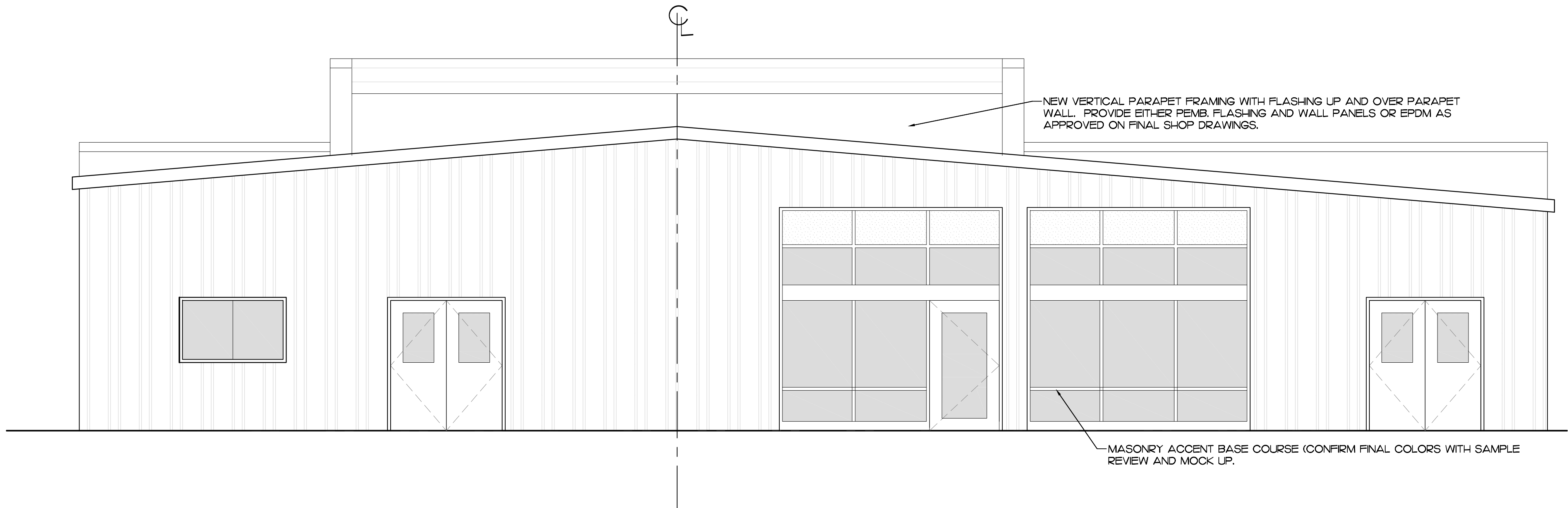
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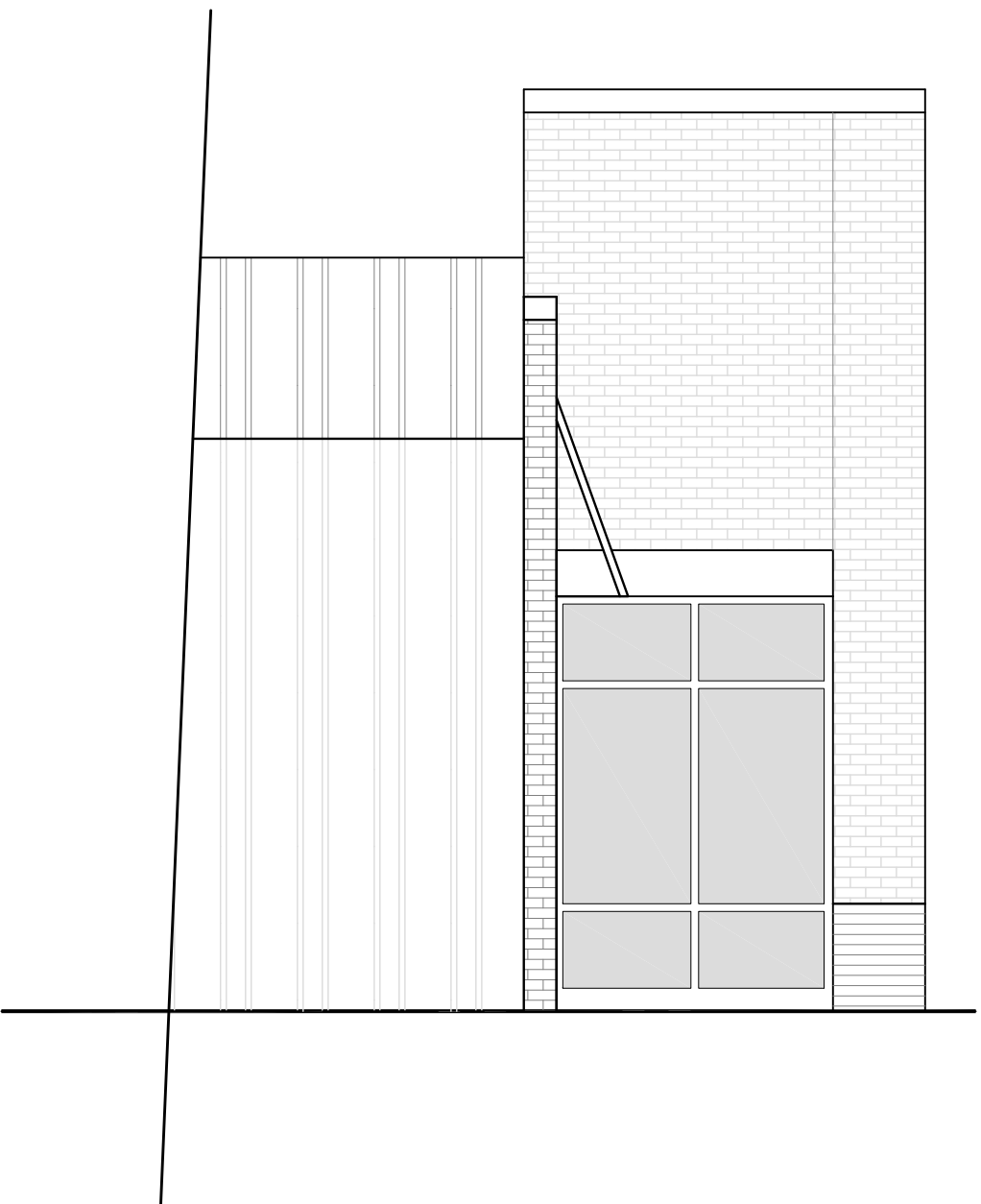
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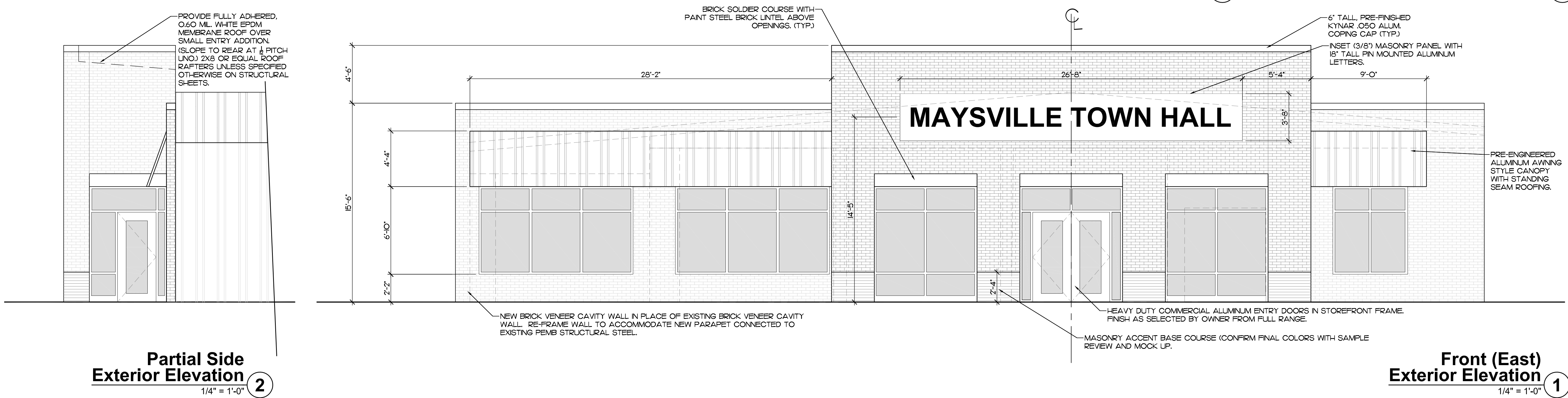
Exist.
Bldg. Section 5
1/4" = 1'-0"



Rear (West)
Exterior Elevation 4
1/4" = 1'-0"



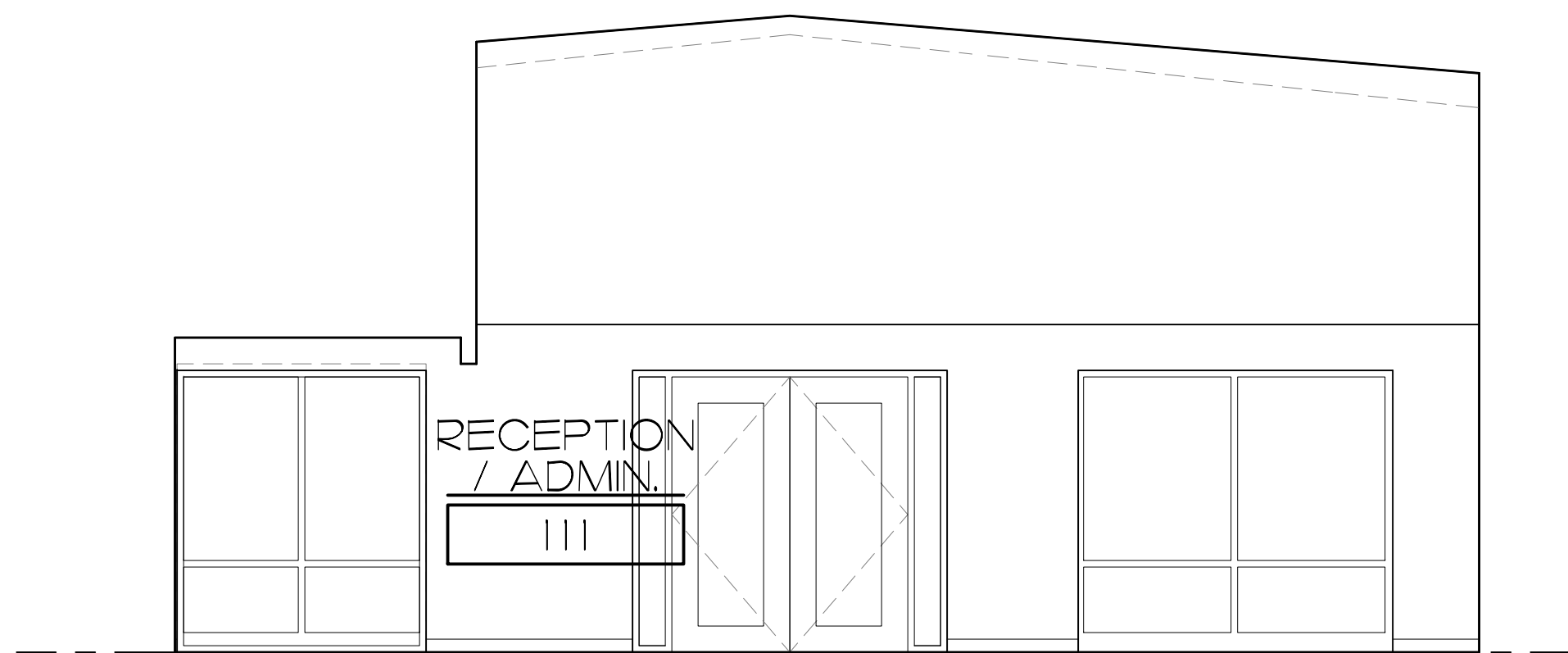
Partial Side
Exterior Elevation 3
1/4" = 1'-0"



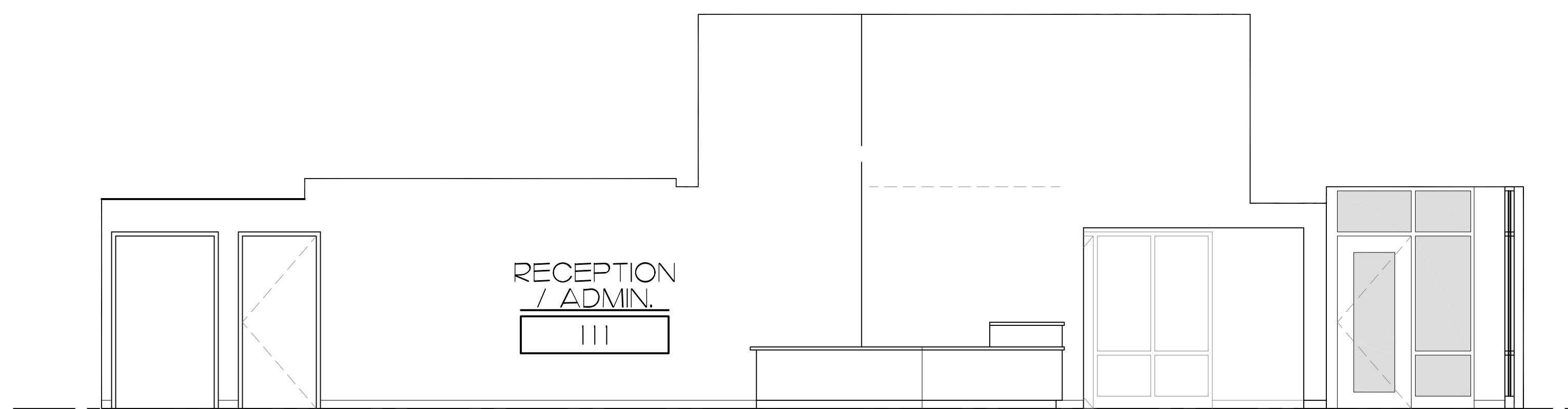
Partial Side
Exterior Elevation 2
1/4" = 1'-0"

Front (East)
Exterior Elevation 1
1/4" = 1'-0"

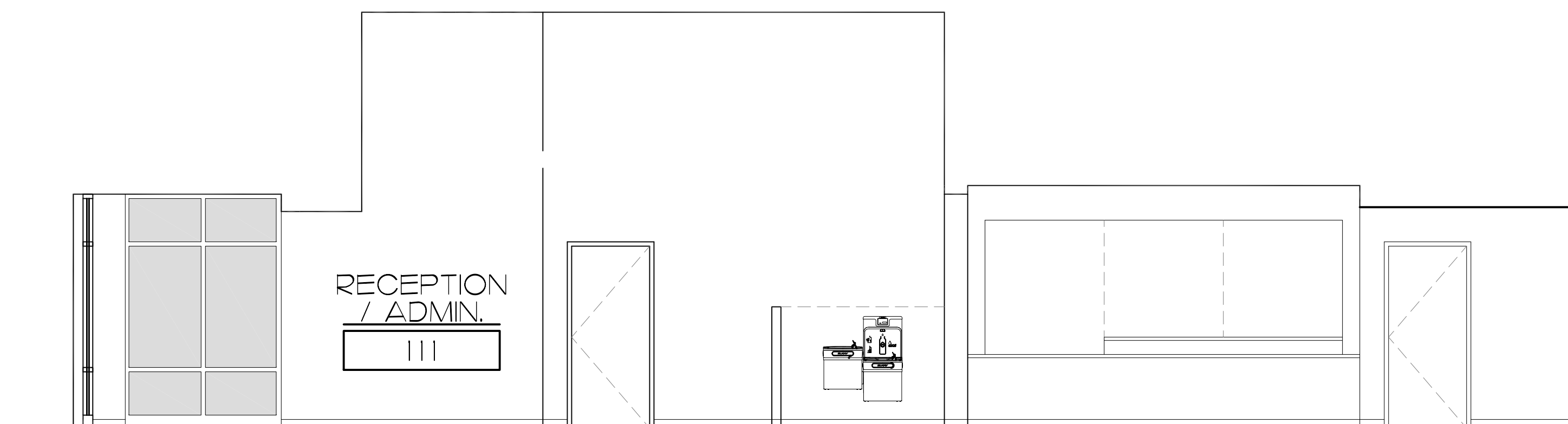
REVISIONS		
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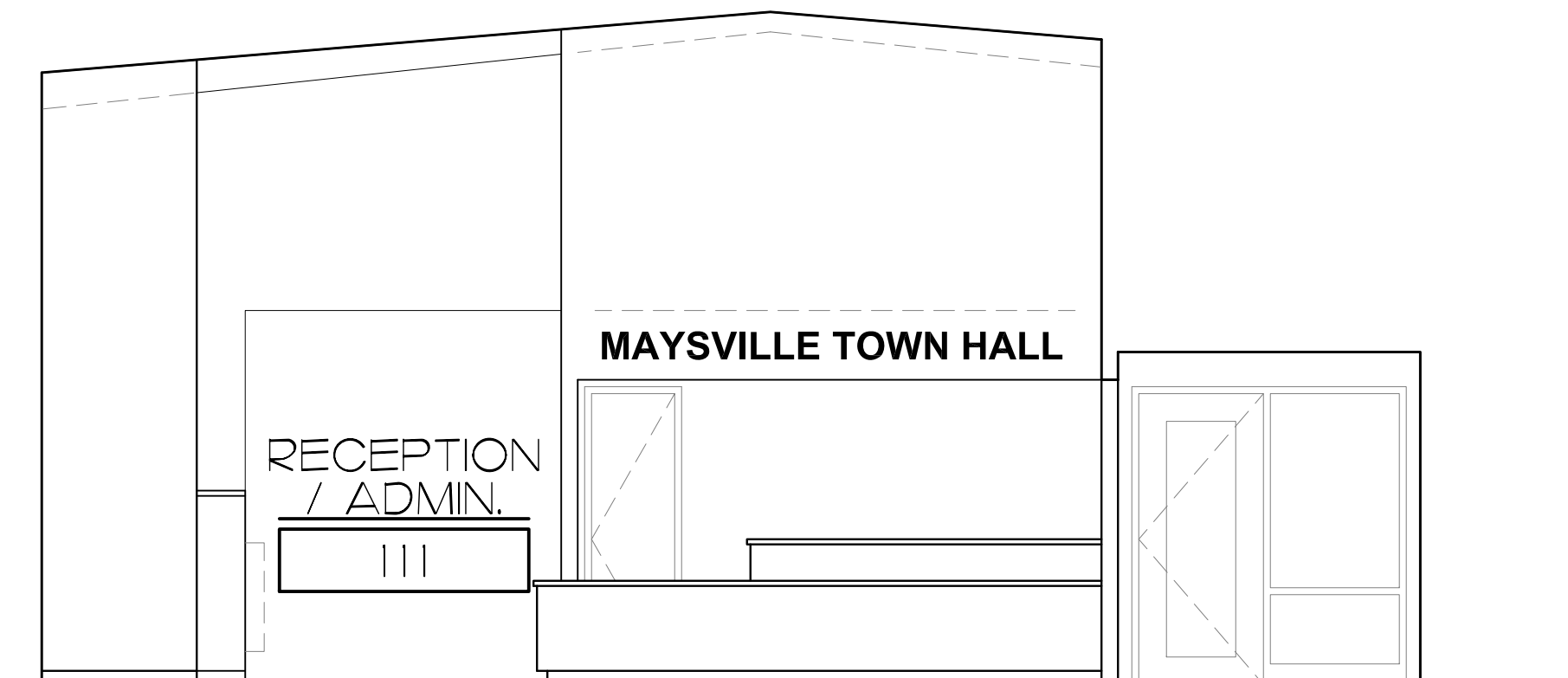
Interior Elevation 8
1/4" = 1'-0"



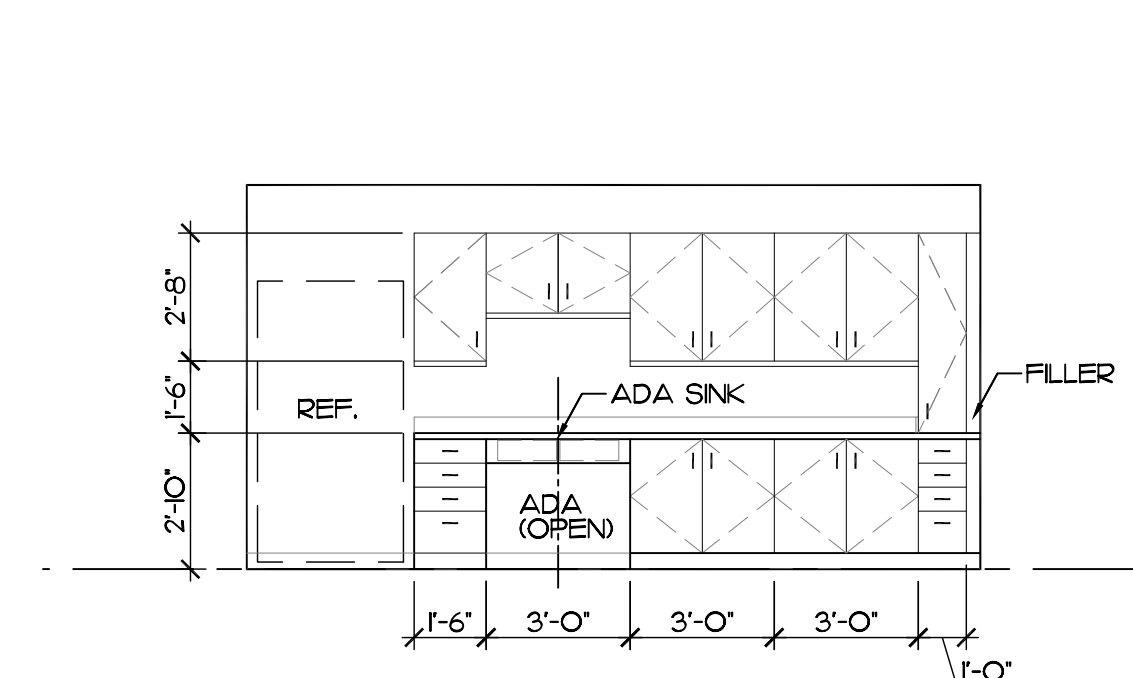
Interior Elevation 7
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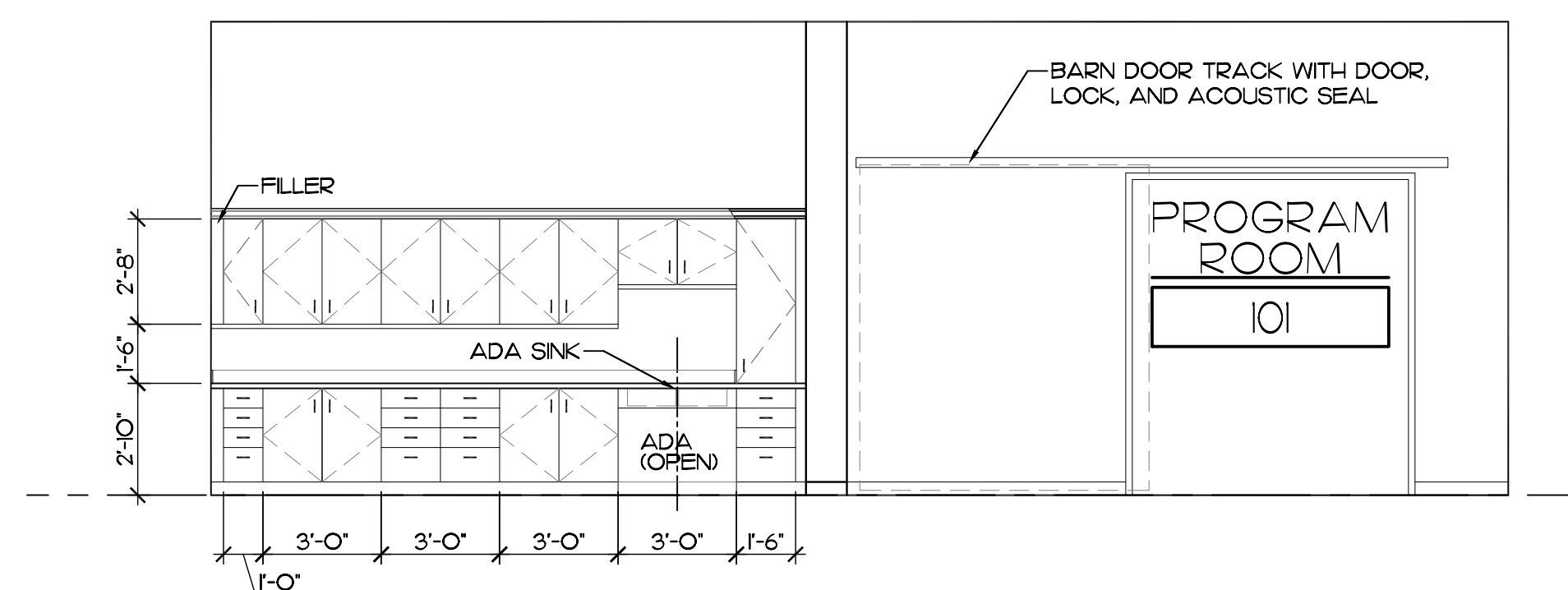
Interior Elevation 6
1/4" = 1'-0"



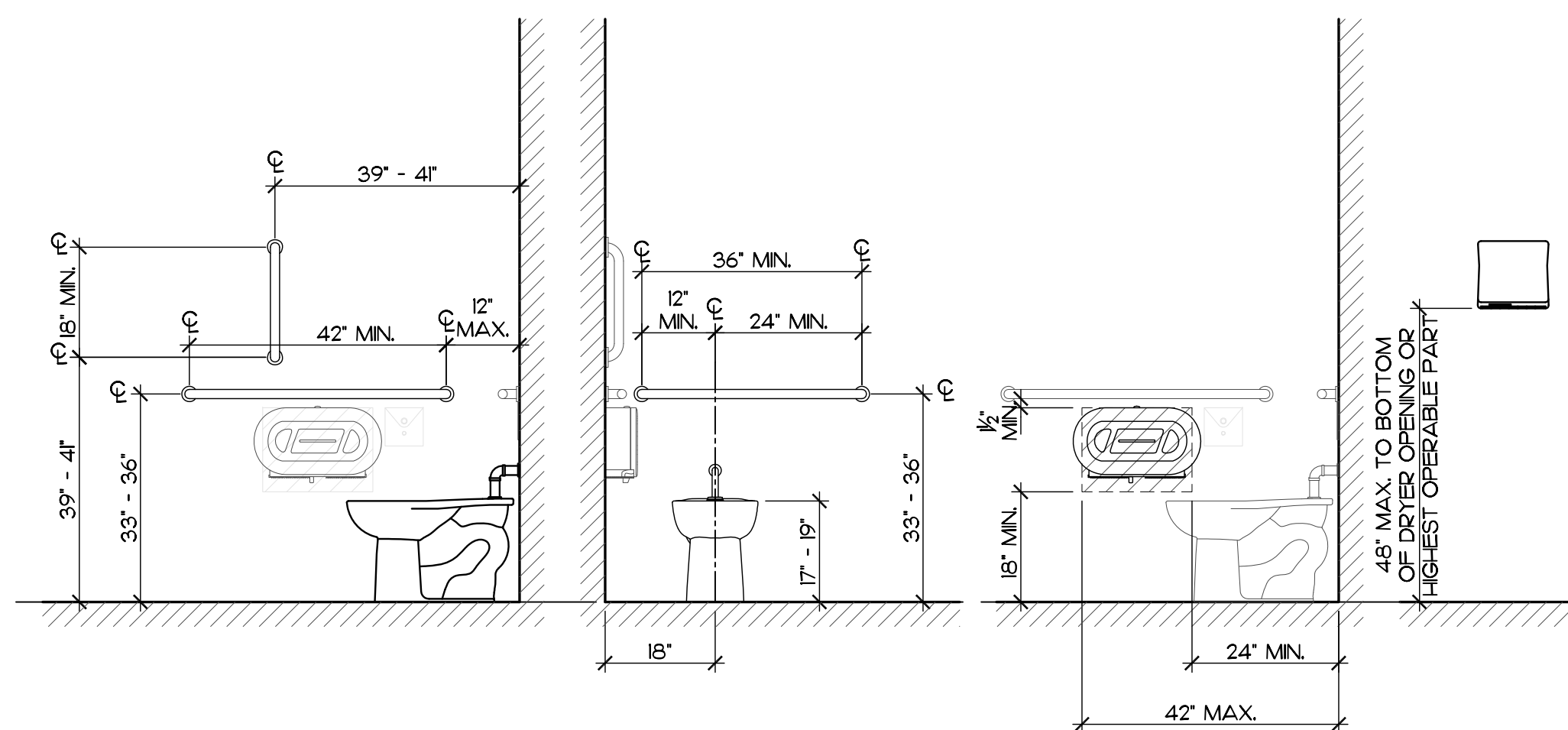
Interior Elevation 5
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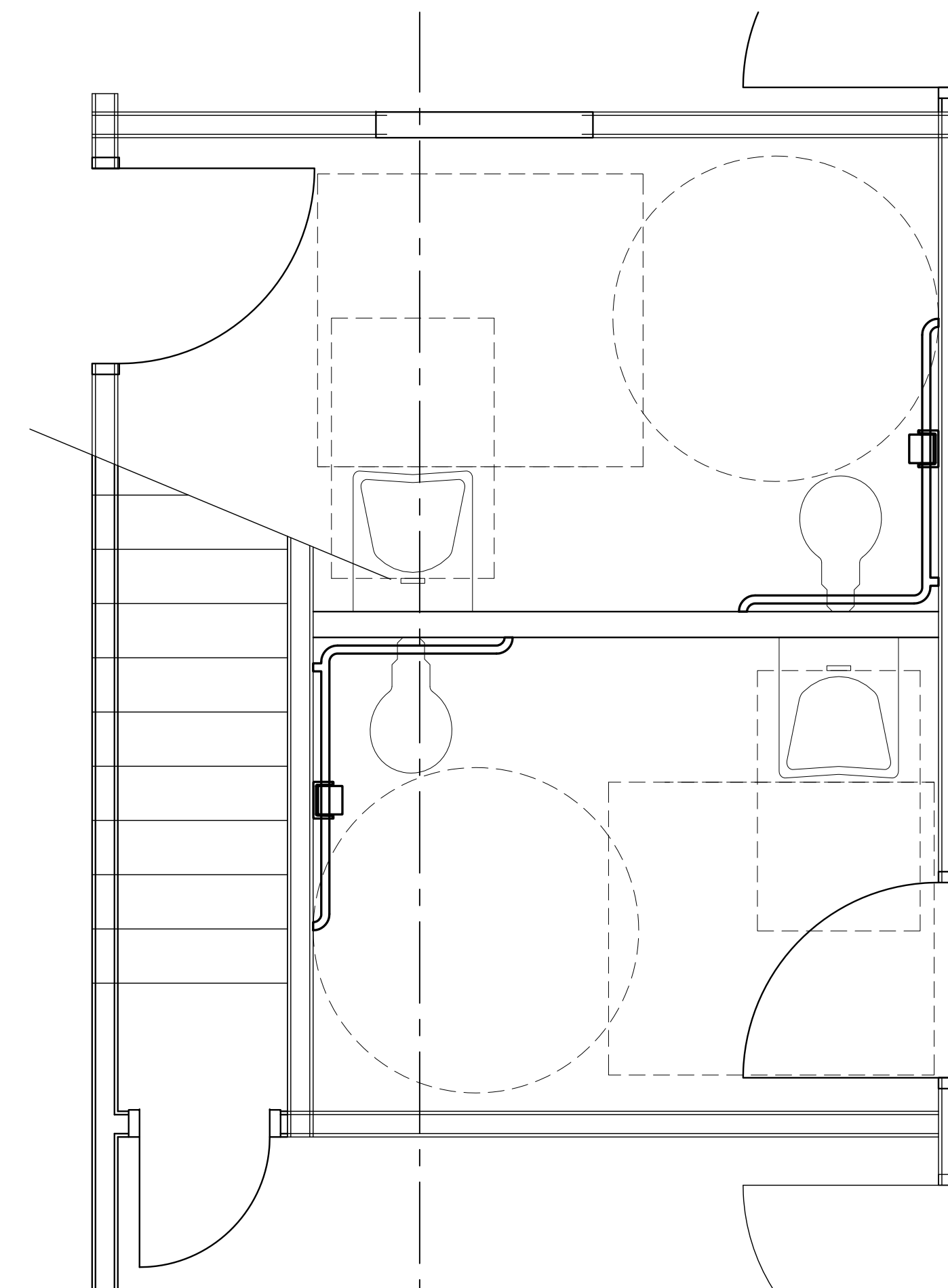
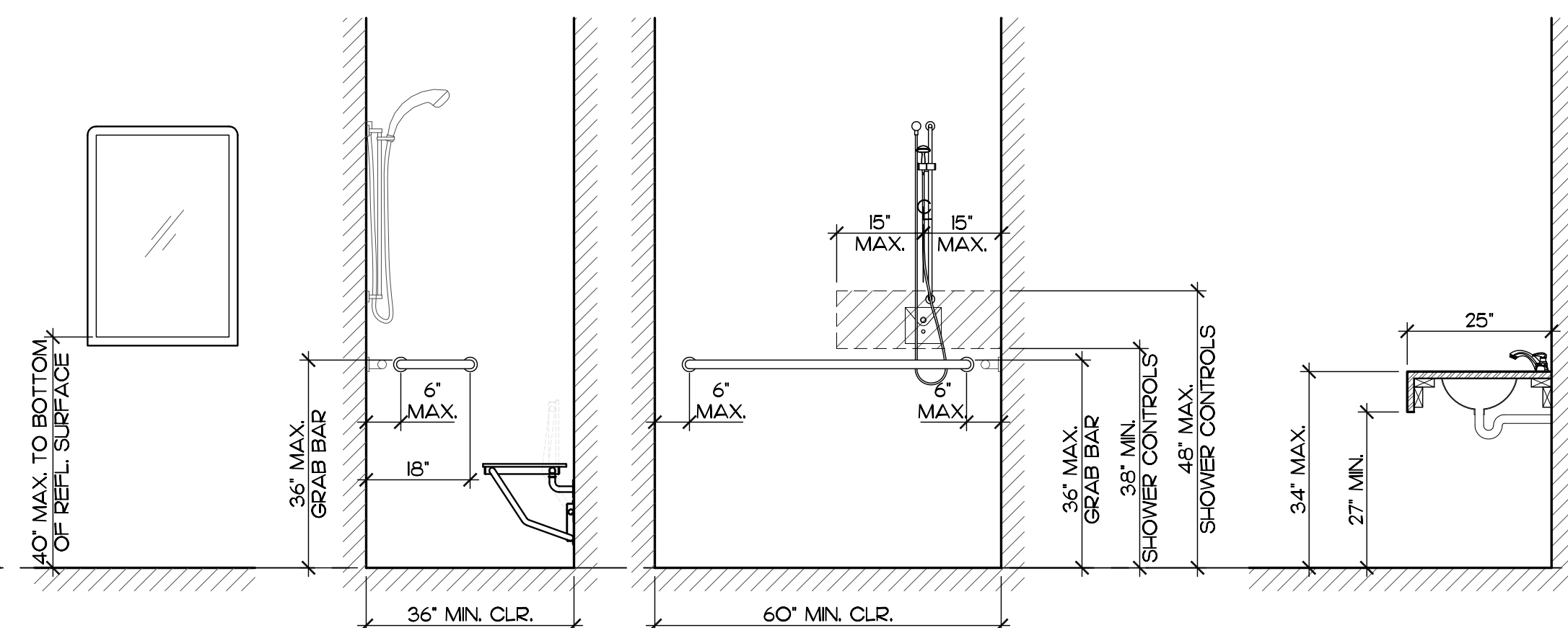
Interior Elevation 4
1/4" = 1'-0"



Interior Elevation 3
1/4" = 1'-0"



Typical ADA Mounting Heights & Clearances 2
1/2" = 1'-0"



Enlarged New Restroom Plan 1
1/2" = 1'-0"

**Town of Maysville
Municipal Building Renovations**
404 Main St.
Maysville, NC 28555



4/30/2025

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SHEET NAME:

**ENLARGED PLANS AND
INTERIOR ELEVATIONS**

PHASE:
Construction Documents

REVISIONS		
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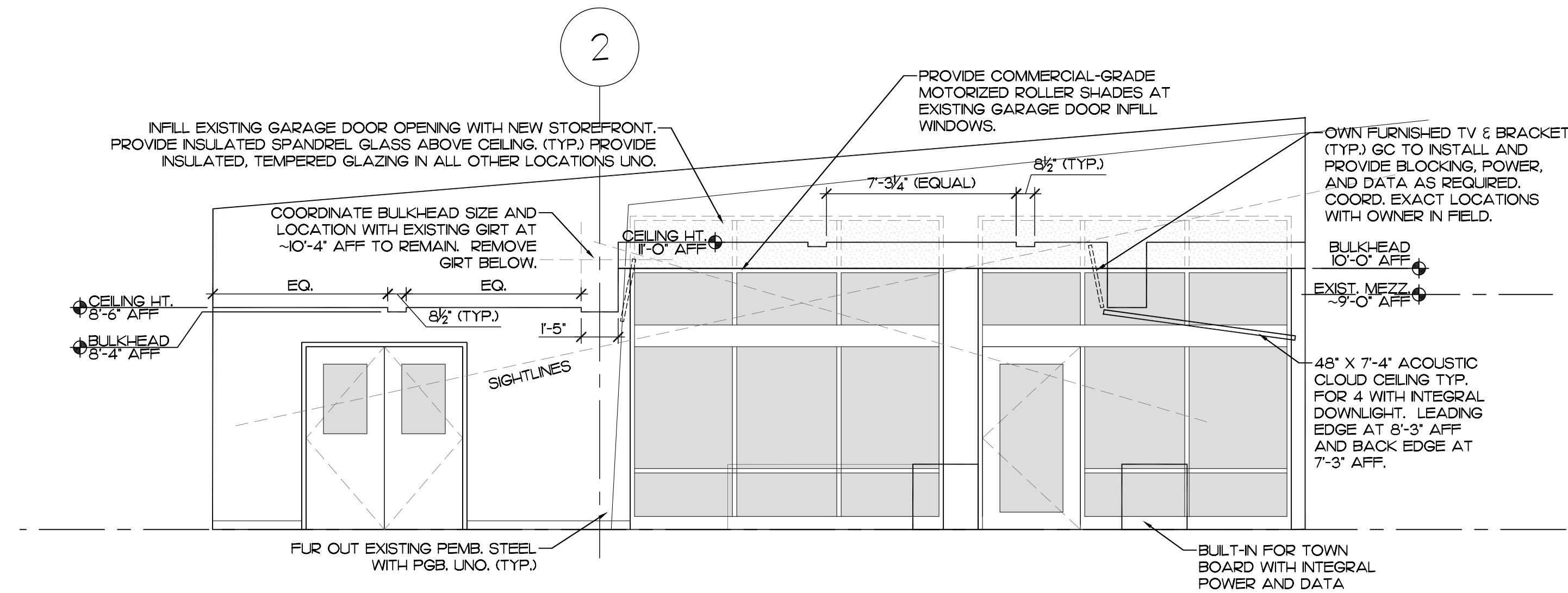
ISSUE DATE: **4/30/2025**

PROJECT #: **24008**

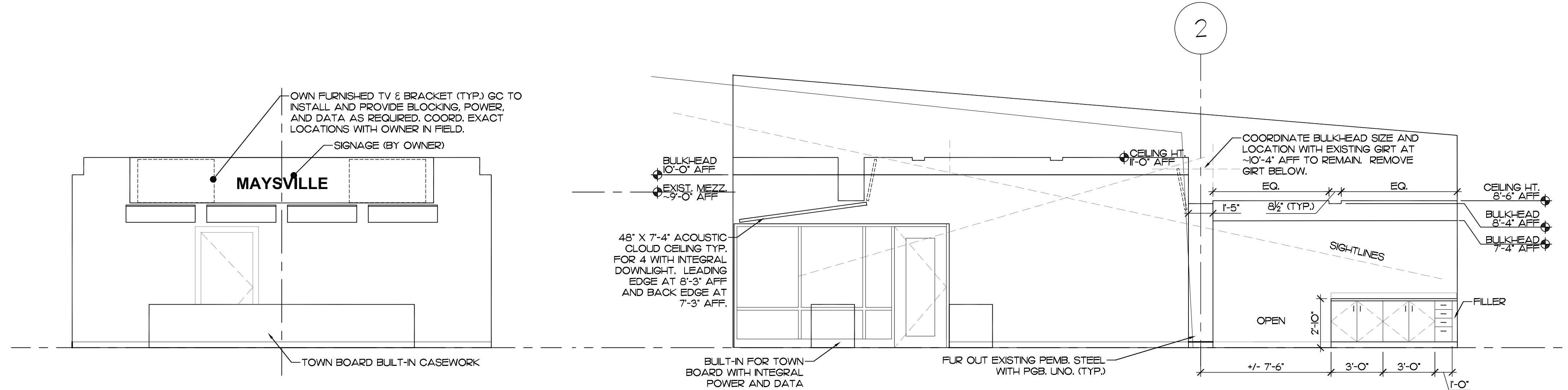
DRAWN BY: **ANM**

SHEET NUMBER

A4-2

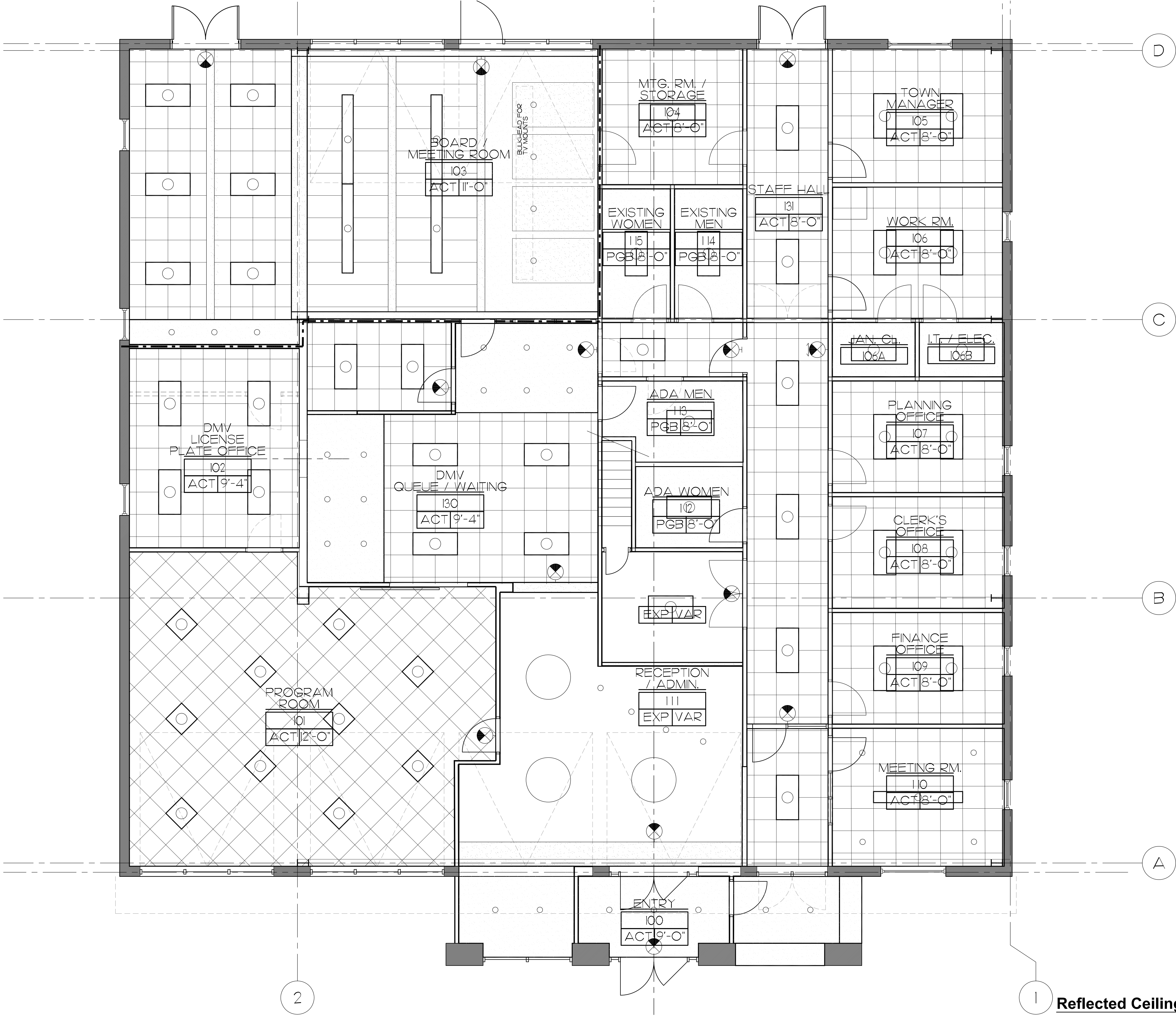


Interior Elevation 3
1/4" = 1'-0"

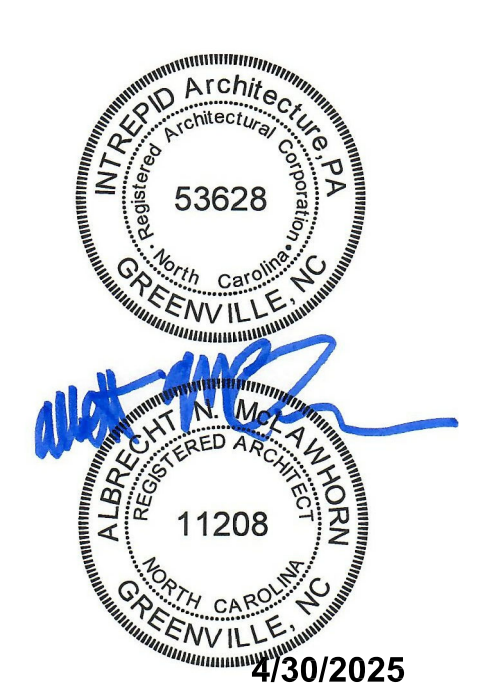


Interior Elevation 1
1/4" = 1'-0"

Interior Elevation 2
1/4" = 1'-0"



Town of Maysville
Municipal Building Renovations
404 Main St.
Maysville, NC 28555



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SHEET NAME:
R.C.P.

PHASE:
Construction Documents

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ISSUE DATE: **4/30/2025**
PROJECT #: **24008**
DRAWN BY: **ANM**

SHEET NUMBER

GLAZING TYPES

CLEAR TEMPERED
1" INSULATED GLASS

CLEAR TEMPERED ¼" GLASS

HARDWARE

OWNER & ARCHITECT TO APPROVE ALL HARDWARE & KEYING

<div>SET #1</div> <table><tr><td>QUANTITY & DESCRIPTION</td><td>MODEL NUMBER</td><td>MANUF.</td></tr><tr><td>2 PIVOT HINGE (S.S.)</td><td>0195 3/4", US32D</td><td>ABH</td></tr><tr><td>1 RIM EXIT DEVICE</td><td>XP98-628</td><td>VON DUPRIN</td></tr><tr><td>1 RIM EXIT DEVICE</td><td>XP98-628</td><td>VON DUPRIN</td></tr><tr><td>1 KR REM MULLION</td><td>KR4754-SP28</td><td>VON DUPRIN</td></tr><tr><td>1 MORTISE CYLINDER (8EXIT TRIM)</td><td></td><td>BEST</td></tr><tr><td>1 MORTISE CYLINDER (8KR MULL)</td><td></td><td>LCN</td></tr><tr><td>2 CLOSER</td><td>4040XP-EDA</td><td>LCN</td></tr><tr><td>1 THRESHOLD</td><td>425-M5/LA-72"</td><td>NAT GUARD</td></tr><tr><td>2 SWEEP</td><td>200NA-36"</td><td>NAT GUARD</td></tr><tr><td>2 GASKETING</td><td></td><td></td></tr></table>	QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.	2 PIVOT HINGE (S.S.)	0195 3/4", US32D	ABH	1 RIM EXIT DEVICE	XP98-628	VON DUPRIN	1 RIM EXIT DEVICE	XP98-628	VON DUPRIN	1 KR REM MULLION	KR4754-SP28	VON DUPRIN	1 MORTISE CYLINDER (8EXIT TRIM)		BEST	1 MORTISE CYLINDER (8KR MULL)		LCN	2 CLOSER	4040XP-EDA	LCN	1 THRESHOLD	425-M5/LA-72"	NAT GUARD	2 SWEEP	200NA-36"	NAT GUARD	2 GASKETING			<div>SET #2</div> <table><tr><td>QUANTITY & DESCRIPTION</td><td>MODEL NUMBER</td><td>MANUF.</td></tr><tr><td>2 CONT. HINGE</td><td>780-224HD</td><td>ROTON</td></tr><tr><td>1 RIM EXIT DEVICE</td><td>XP98-628</td><td>VON DUPRIN</td></tr><tr><td>1 RIM EXIT DEVICE</td><td>XP98-628</td><td>VON DUPRIN</td></tr><tr><td>1 KR REM MULLION</td><td>KR4754-SP28</td><td>VON DUPRIN</td></tr><tr><td>1 MORTISE CYLINDER (8EXIT TRIM)</td><td></td><td>BEST</td></tr><tr><td>1 MORTISE CYLINDER (8KR MULL)</td><td></td><td>LCN</td></tr><tr><td>2 CLOSER</td><td>4040XP-EDA</td><td>LCN</td></tr><tr><td>1 THRESHOLD</td><td>425-M5/LA-72"</td><td>NAT GUARD</td></tr><tr><td>1 KICKPLATE</td><td>8400 8 X34 630</td><td>IVES</td></tr></table>	QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.	2 CONT. HINGE	780-224HD	ROTON	1 RIM EXIT DEVICE	XP98-628	VON DUPRIN	1 RIM EXIT DEVICE	XP98-628	VON DUPRIN	1 KR REM MULLION	KR4754-SP28	VON DUPRIN	1 MORTISE CYLINDER (8EXIT TRIM)		BEST	1 MORTISE CYLINDER (8KR MULL)		LCN	2 CLOSER	4040XP-EDA	LCN	1 THRESHOLD	425-M5/LA-72"	NAT GUARD	1 KICKPLATE	8400 8 X34 630	IVES	<div>SET #3</div> <table><tr><td>QUANTITY & DESCRIPTION</td><td>MODEL NUMBER</td><td>MANUF.</td></tr><tr><td>1 PUSH PLATE</td><td>111X73C/73CL</td><td>ROCKWOOD</td></tr><tr><td>1 PULL HANDLE</td><td></td><td>ROCKWOOD</td></tr><tr><td>1 CLOSER (8-8"LT)</td><td>4010</td><td>LCN</td></tr><tr><td>1 KICKPLATE</td><td>8400 8 X34 630</td><td>IVES</td></tr><tr><td>1 DOOR LOCK (OPERABLE FROM INSIDE)</td><td></td><td>ROCKWOOD</td></tr><tr><td></td><td></td><td>BEST</td></tr></table>	QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.	1 PUSH PLATE	111X73C/73CL	ROCKWOOD	1 PULL HANDLE		ROCKWOOD	1 CLOSER (8-8"LT)	4010	LCN	1 KICKPLATE	8400 8 X34 630	IVES	1 DOOR LOCK (OPERABLE FROM INSIDE)		ROCKWOOD			BEST
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<div>SET #4</div> <table><tr><td>QUANTITY & DESCRIPTION</td><td>MODEL NUMBER</td><td>MANUF.</td></tr><tr><td>1 MORTISE LOCK</td><td>(OFFICE)15D.626</td><td>BEST</td></tr><tr><td>1 CLOSER</td><td>4010</td><td>LCN</td></tr><tr><td>1 KICKPLATE</td><td>8400 8 X34 630</td><td>IVES</td></tr></table>	QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.	1 MORTISE LOCK	(OFFICE)15D.626	BEST	1 CLOSER	4010	LCN	1 KICKPLATE	8400 8 X34 630	IVES	<div>SET #5</div> <table><tr><td>QUANTITY & DESCRIPTION</td><td>MODEL NUMBER</td><td>MANUF.</td></tr><tr><td>1 MORTISE LOCK</td><td>(STORERM)15D.626</td><td>BEST</td></tr><tr><td>1 CLOSER</td><td>4010</td><td>LCN</td></tr><tr><td>1 KICKPLATE</td><td>8400 8 X34 630</td><td>IVES</td></tr></table>	QUANTITY & DESCRIPTION	MODEL NUMBER	MANUF.	1 MORTISE LOCK	(STORERM)15D.626	BEST	1 CLOSER	4010	LCN	1 KICKPLATE	8400 8 X34 630	IVES																																																													
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DOOR & HARDWARE NOTES:

1. HARDWARE SHALL COMPLY WITH ALL ACCESSIBILITY REQUIREMENTS.

2. ALL EXTERIOR DOORS SHALL HAVE ADA COMPLIANT THRESHOLDS AND WEATHER-STRIPPING

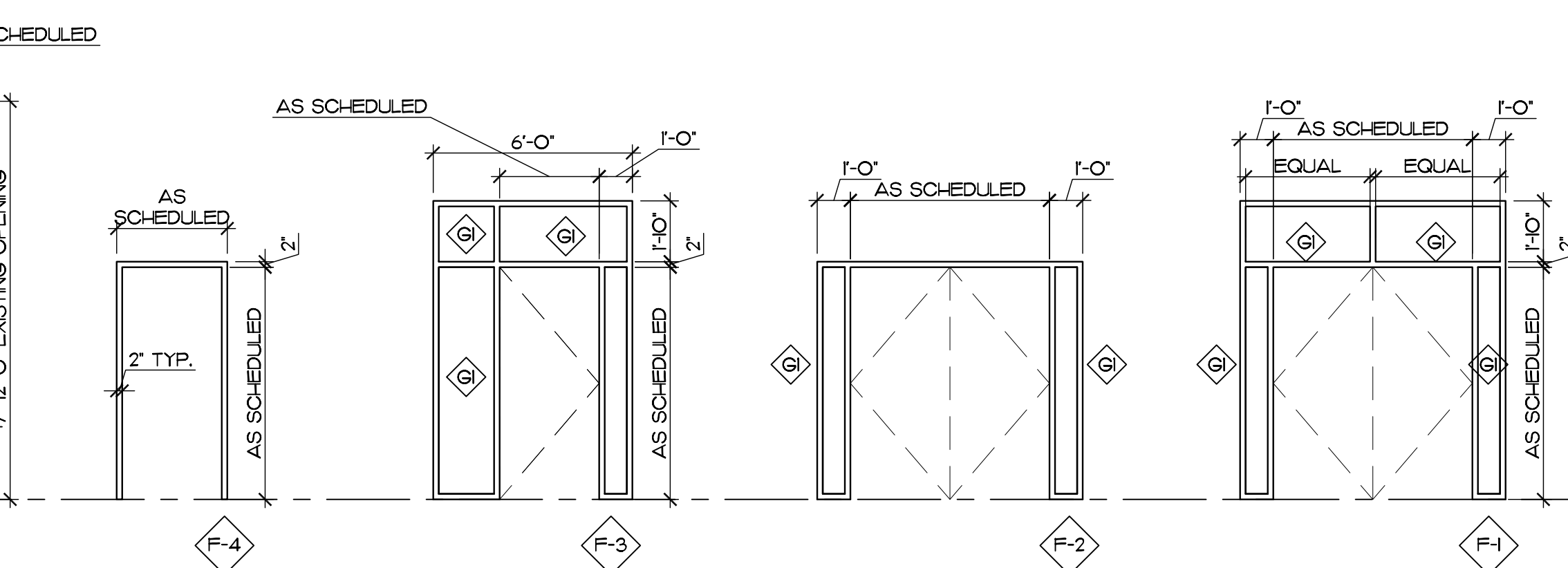
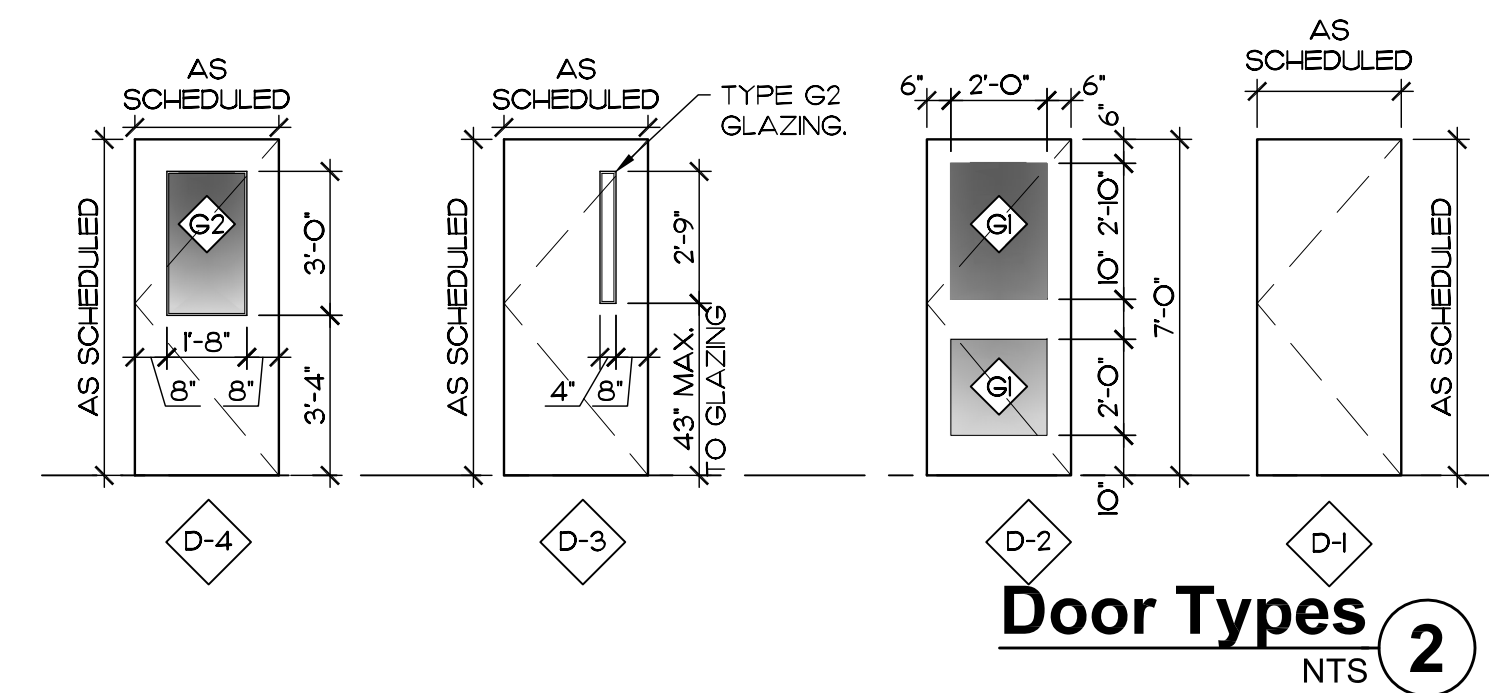
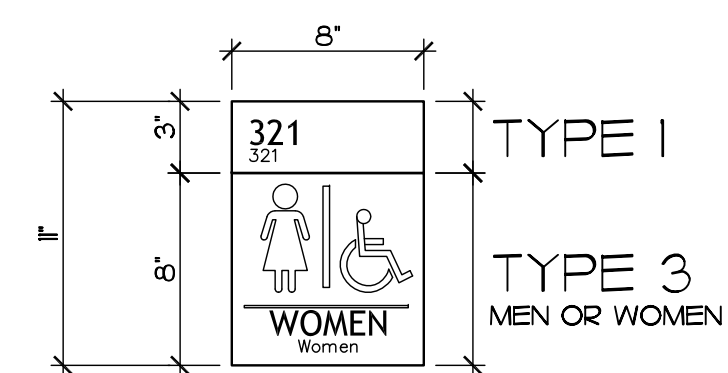
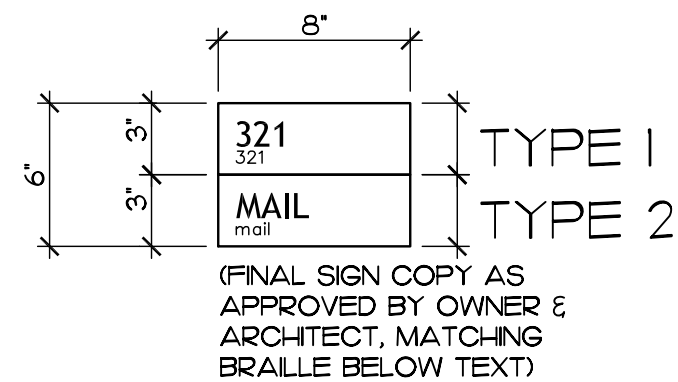
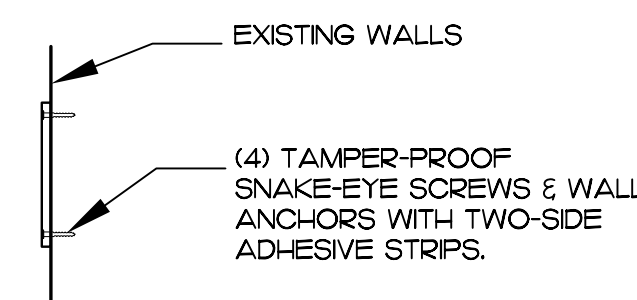
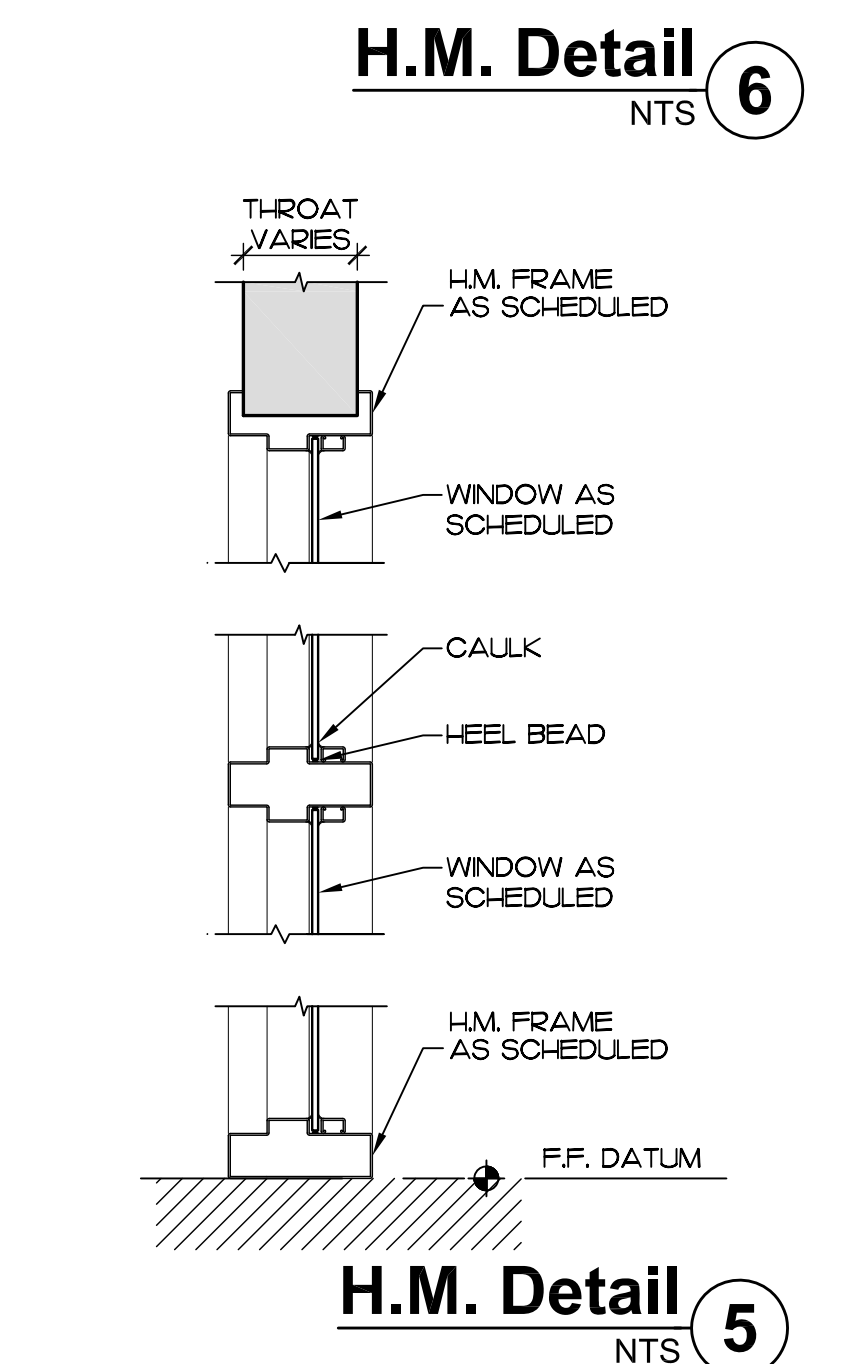
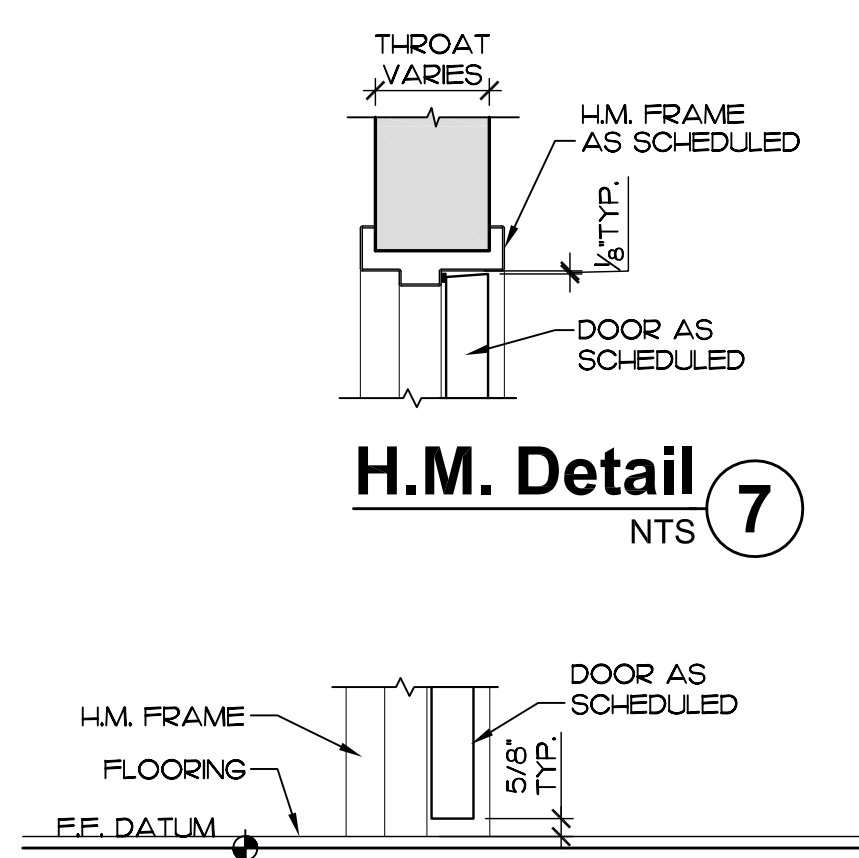
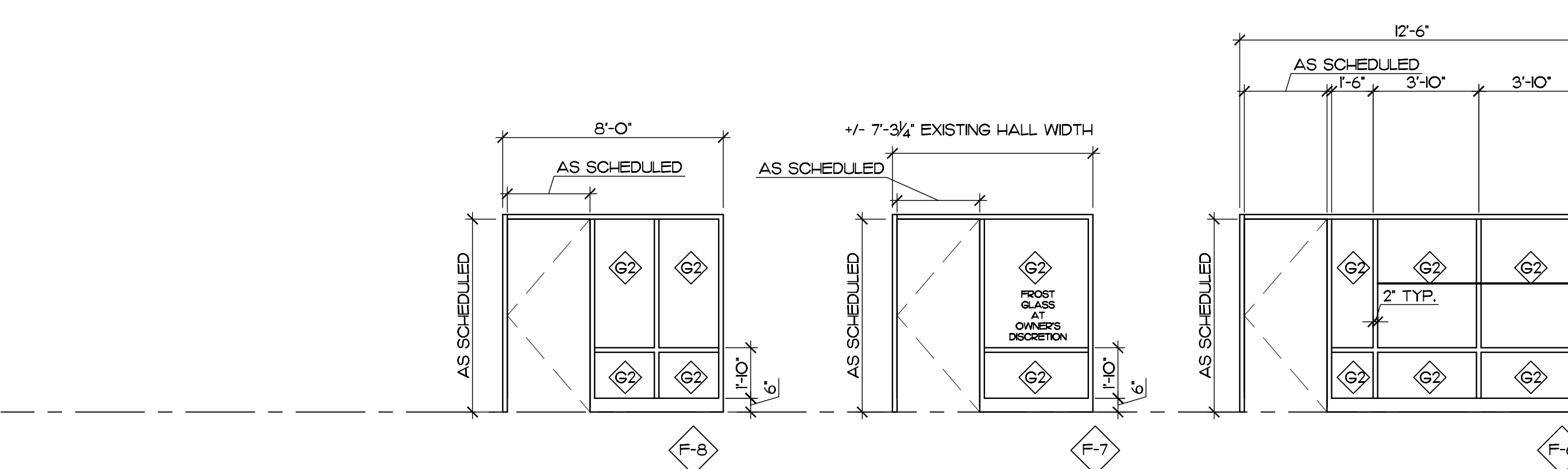
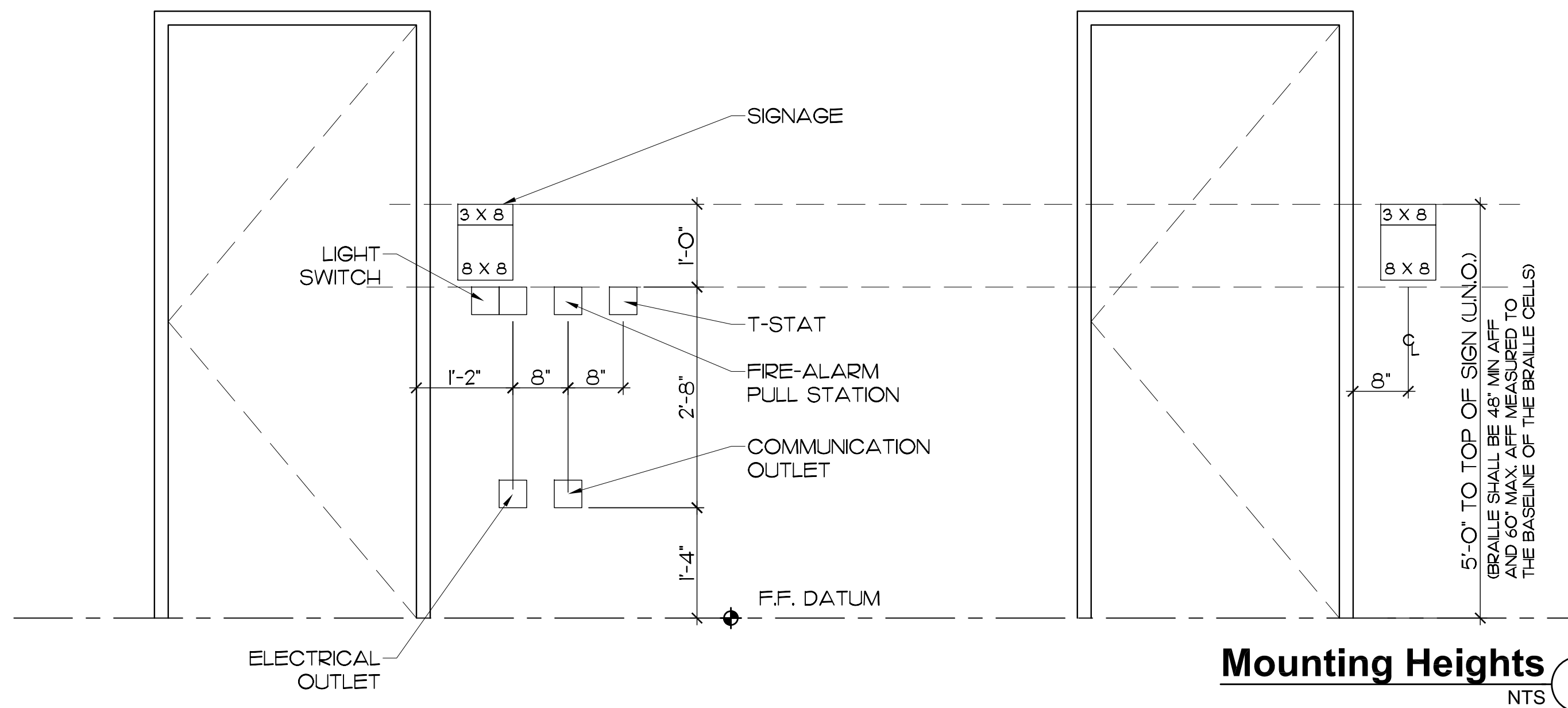
3. VERIFY IF OWNER WANTS EXTERIOR DOORS PREP'D FOR FUTURE ELECTRONIC LOCKING AND DOOR MONITORING.

4. ALL HARDWARE SHALL BE COORDINATED WITH BUILDING/CLIENT STANDARDS IF APPLICABLE.

5. WHERE APPLICABLE, DOOR ASSEMBLY & HARDWARE SHALL COMPLY WITH REQUIRED RATING AS INDICATED.

6. U.N.O. EACH DOOR LEAF TO RECEIVE 1.5 PAIR 4.5"x4.5" HEAVY DUTY S.S. HINGES, SILENCERS, & A DOOR STOP.

Hardware sets under review

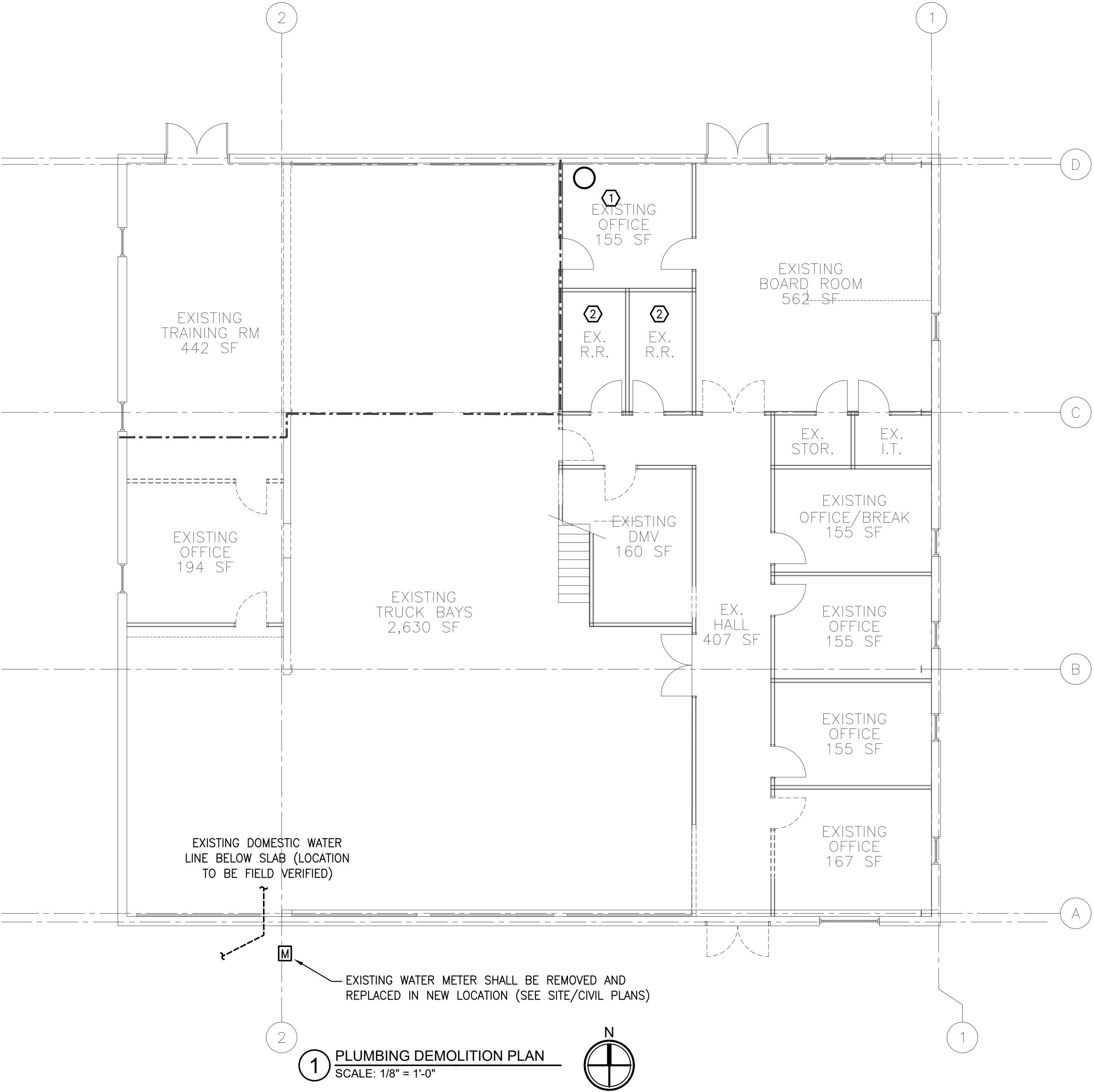


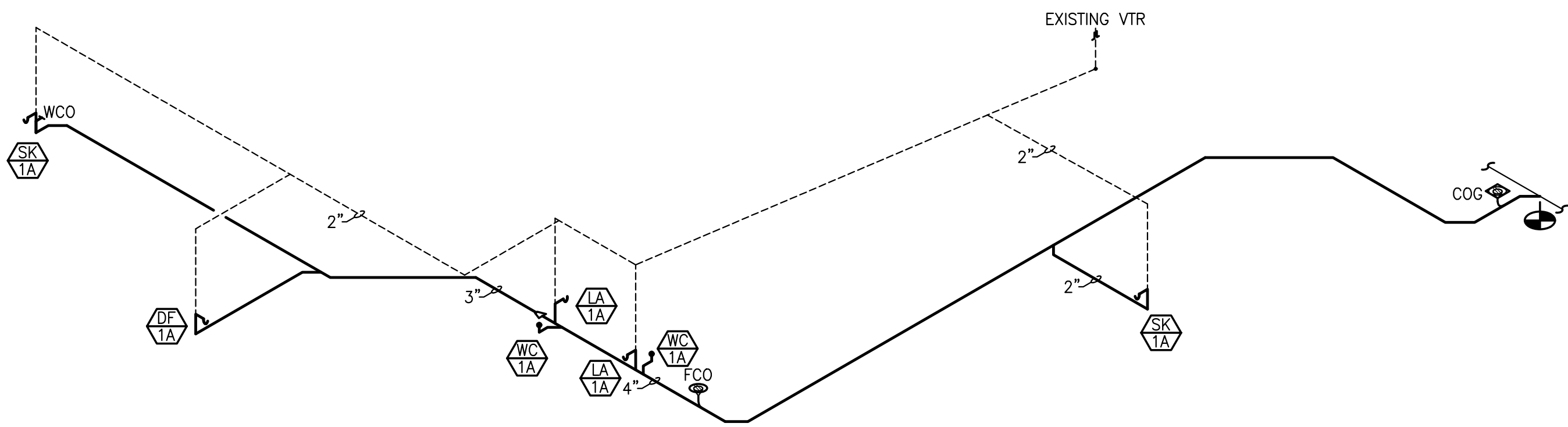
DEMOLITION NOTES:

- PRIOR TO SUBMITTING A BID, CONTRACTOR MUST VISIT THE JOB SITE IN ORDER TO HAVE A WORKING KNOWLEDGE OF THE EXISTING SYSTEMS AND CONDITIONS.
- DEMOLITION PLANS SHOW APPROXIMATE LOCATIONS OF EXISTING PLUMBING SYSTEMS. ALL ITEMS ENCLOSED IN THE STRUCTURE MAY NOT BE NOTED OR MAY BE SHOWN SCHEMATICALLY. PLUMBING CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TERMINATIONS, CAPS AND RECONNECTIONS REQUIRED TO INSTALL A COMPLETE PLUMBING SYSTEM. INFORMATION IS BASED ON NON-DESTRUCTIVE FIELD INVESTIGATION AND/OR EXISTING DRAWING INFORMATION. VERY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONDITIONS THAT REQUIRE CORRECTIVE ACTION BEYOND THE SCOPE OF THESE PLANS. ALL FIELD CORRECTIONS SHALL BE RED-LINED AND PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- ALL CONCEALED PIPING, NOT READILY REMOVABLE SHALL BE CAPPED BELOW FINISH SURFACES.
- FIXTURE REMOVAL SHALL NOT CREATE A DEAD END LINE IN DRAIN & WASTE PIPING. REMOVE INDIVIDUAL LINE OR PROVIDE CLEANOUT AT THE END OF EACH LINE AS REQUIRED.
- GENERAL CONTRACTOR SHALL REPAIR ALL WALL, FLOOR & CEILING OPENINGS FROM DEMOLITION OF PLUMBING WORK. FINISH SURFACES SHALL BE RESTORED TO MATCH ORIGINAL CONDITION. PLUMBING CONTRACTOR SHALL TAKE EXTREME CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING SURFACES.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AND WASTE MATERIAL OF DEMOLITION & CONSTRUCTION UNLESS DIRECTED OTHERWISE. THE OWNER RESERVES THE RIGHT TO RETAIN ANY ITEM WHETHER NOTED ON PLANS OR NOT.
- BUILDING SYSTEMS SHUTDOWN – PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNER 48 HOURS BEFORE ANY UNAVOIDABLE WATER, DRAIN, GAS SHUTDOWN.
- REFERENCE AND COORDINATE WITH ARCHITECTURAL PLANS FOR CONSTRUCTION PHASING. OWNER WILL OCCUPY THE EAST SIDE OFFICE WHILE THE EXISTING TRUCK BAYS ARE UNDER CONSTRUCTION.

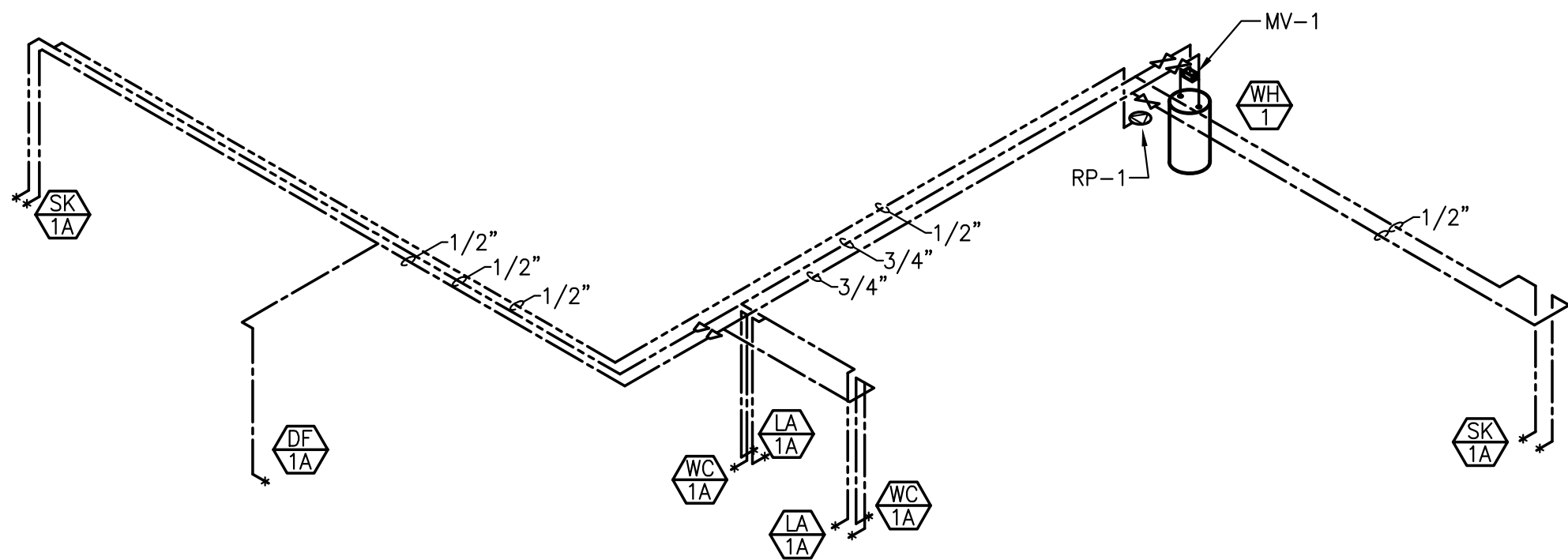
DEMOLITION KEYED NOTES "A"-"M":

- REMOVE WATER HEATER AND PIPING AS NECESSARY TO ALLOW INSTALLATION OF NEW WATER HEATER. PIPING FEEDING EXISTING RESTROOMS MAY REMAIN.
- REMOVE EXISTING WATER CLOSET AND LAVATORY. NEW FIXTURES SHALL BE REPLACED IN EXISTING LOCATIONS.





PLUMBING DWV PIPING RISER
SCALE: N.T.S.

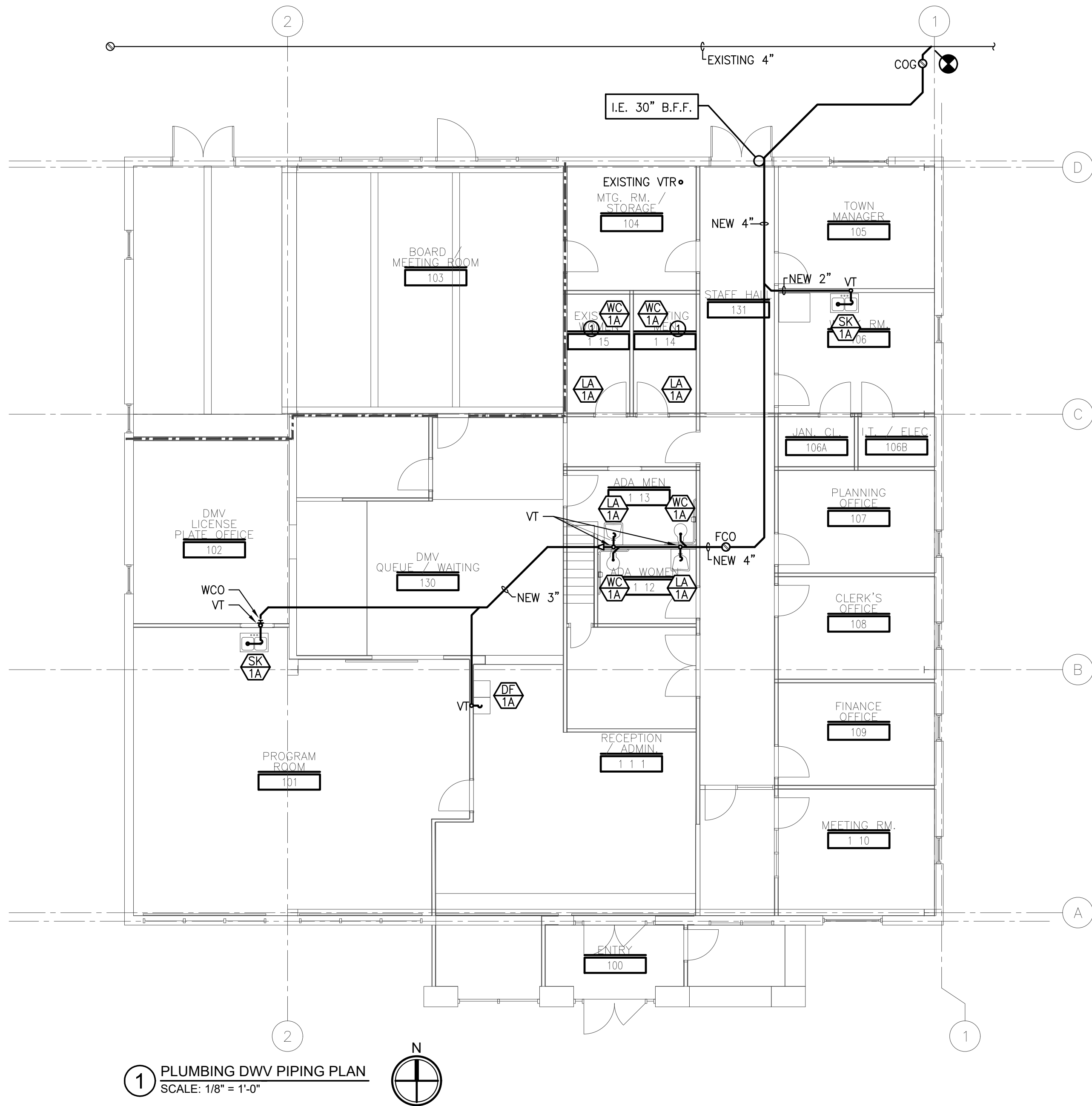


PLUMBING WATER PIPING RISER
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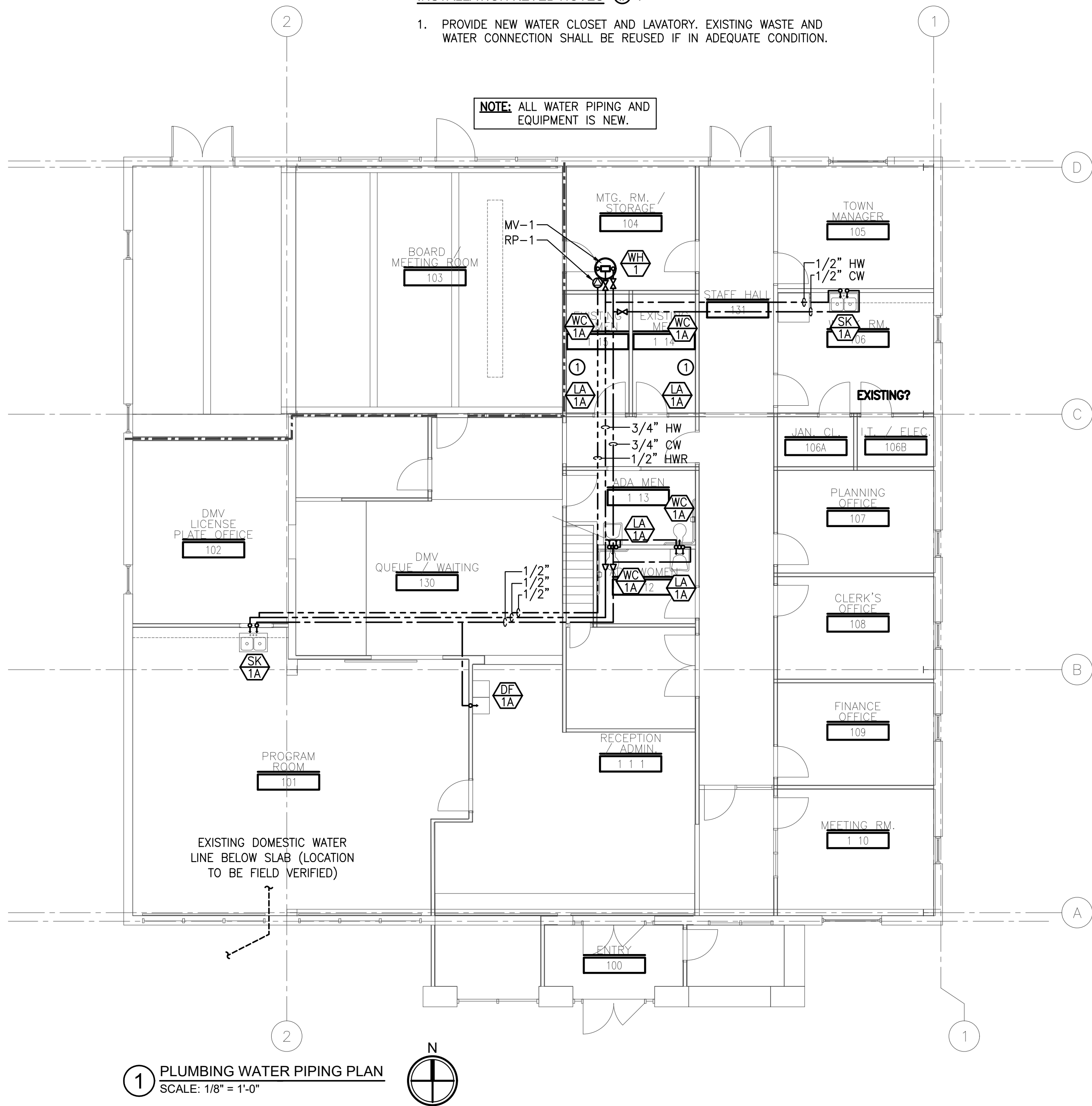
INSTALLATION KEYED NOTES "Ⓢ":

1. PROVIDE NEW WATER CLOSET AND LAVATORY. EXISTING WASTE AND WATER CONNECTION SHALL BE REUSED IF IN ADEQUATE CONDITION.

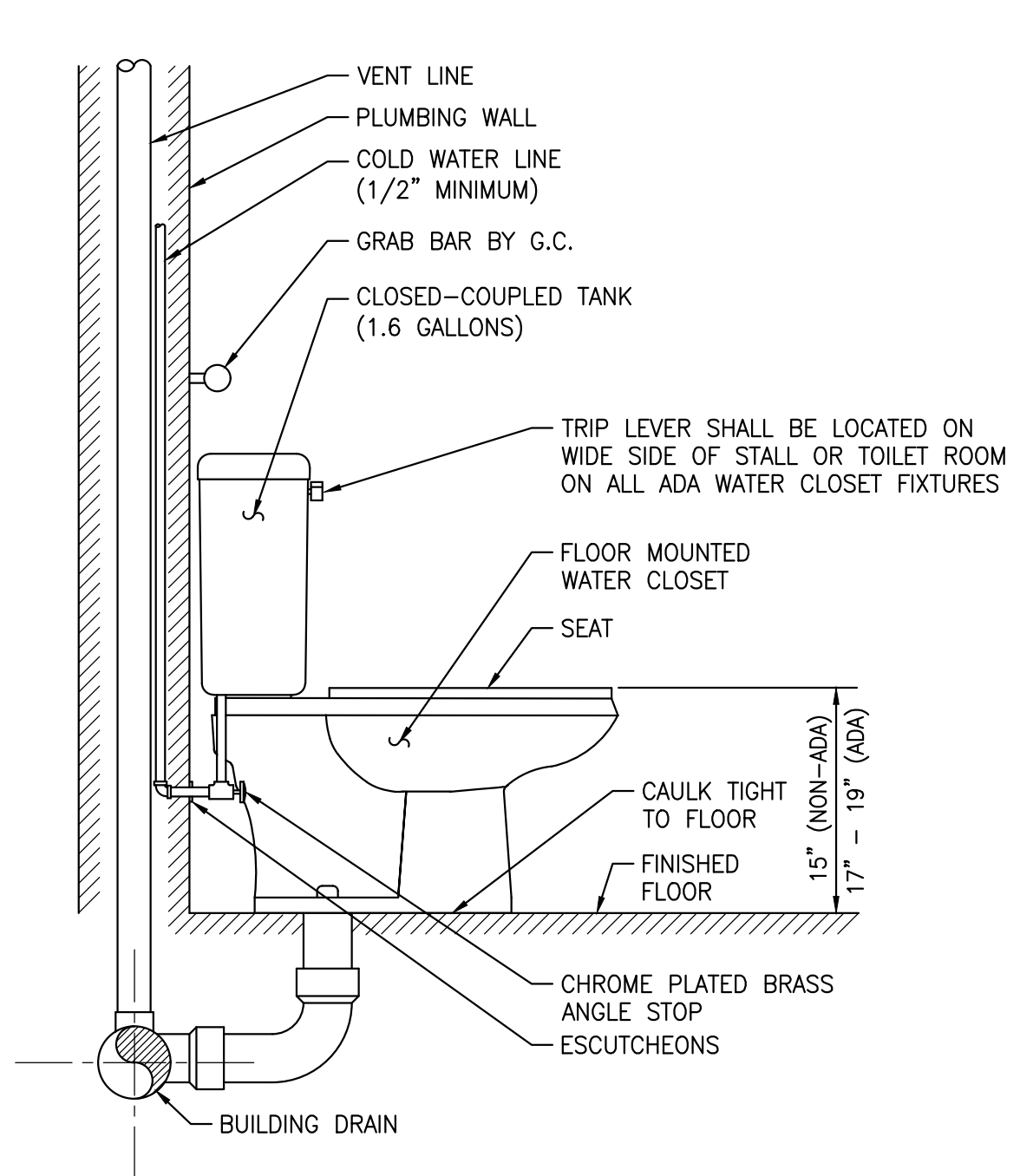
NOTE: ALL WATER PIPING AND EQUIPMENT IS NEW.



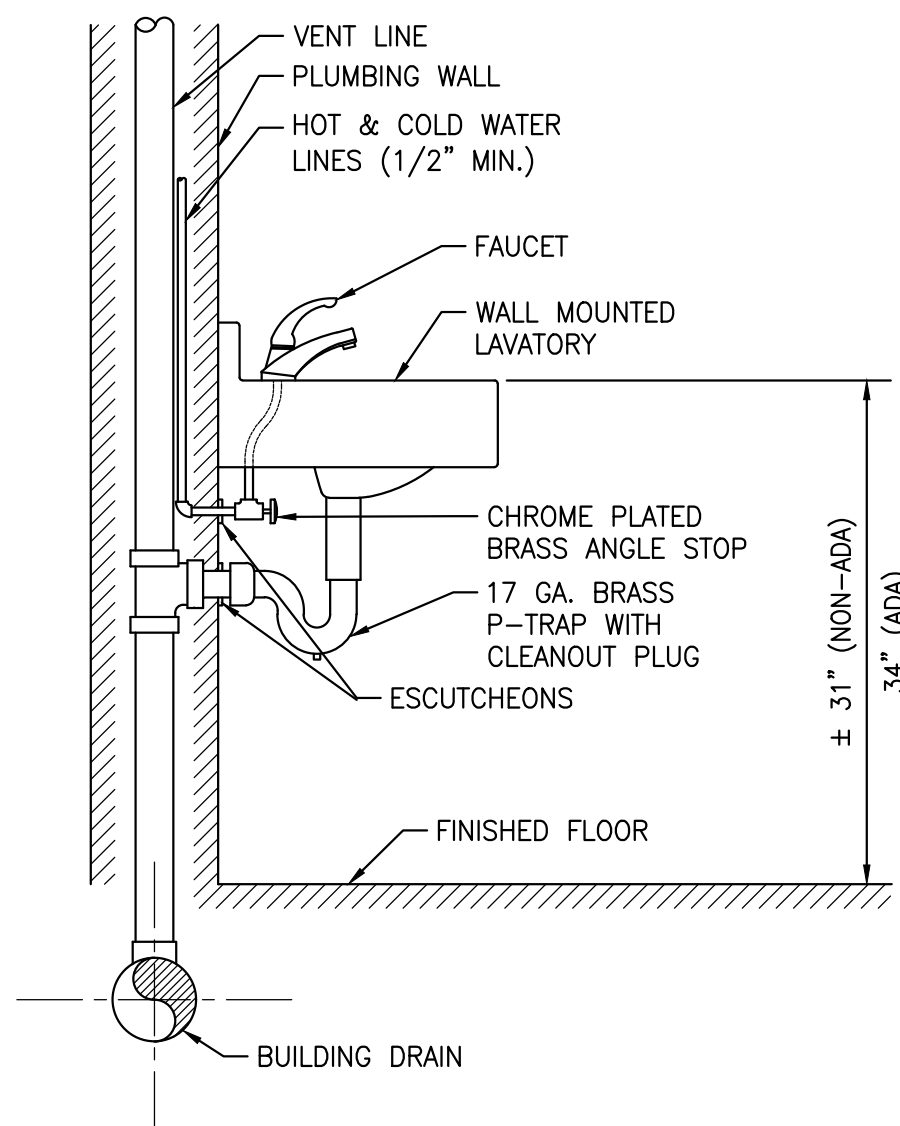
1 PLUMBING DWV PIPING PLAN
SCALE: 1/8" = 1'-0"



1 PLUMBING WATER PIPING PLAN
SCALE: 1/8" = 1'-0"

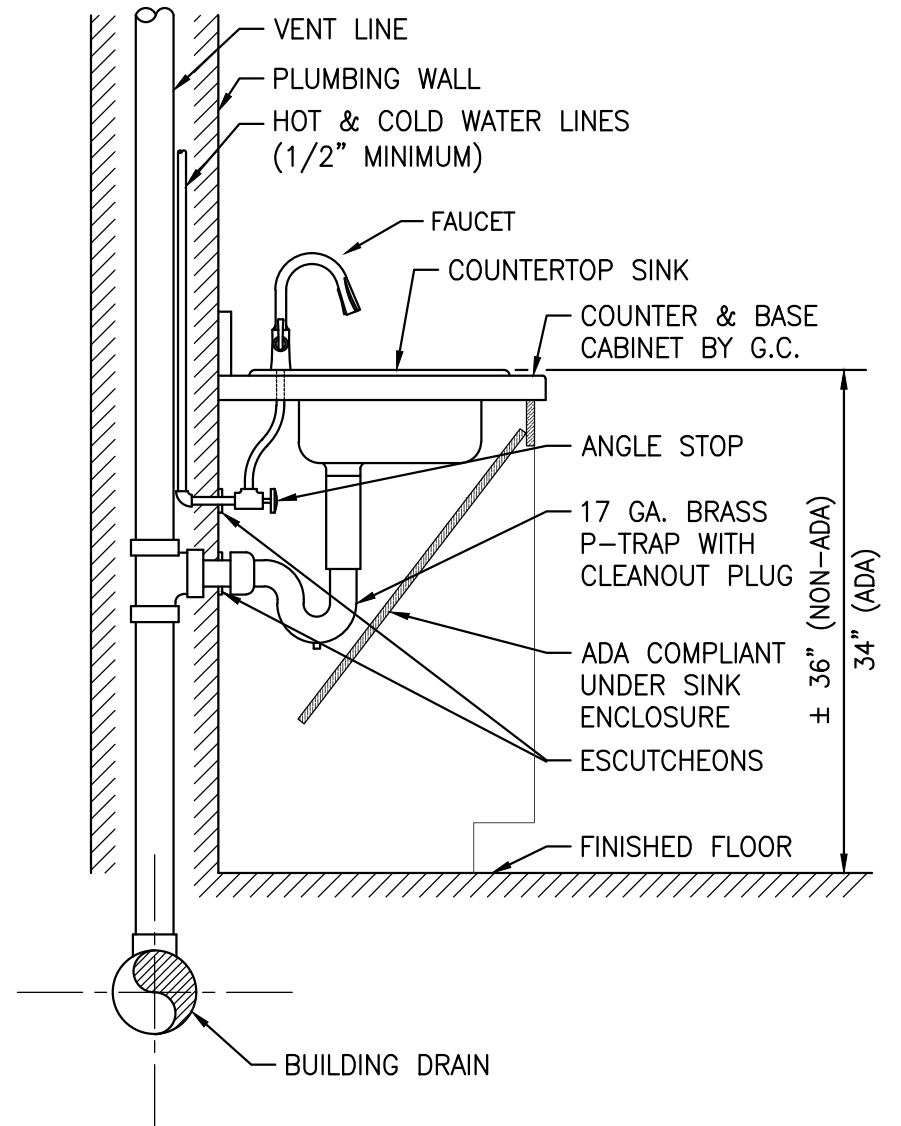


1 FLOOR MOUNTED WATER CLOSET WITH FLUSH TANK DETAIL
SCALE: N.T.S.



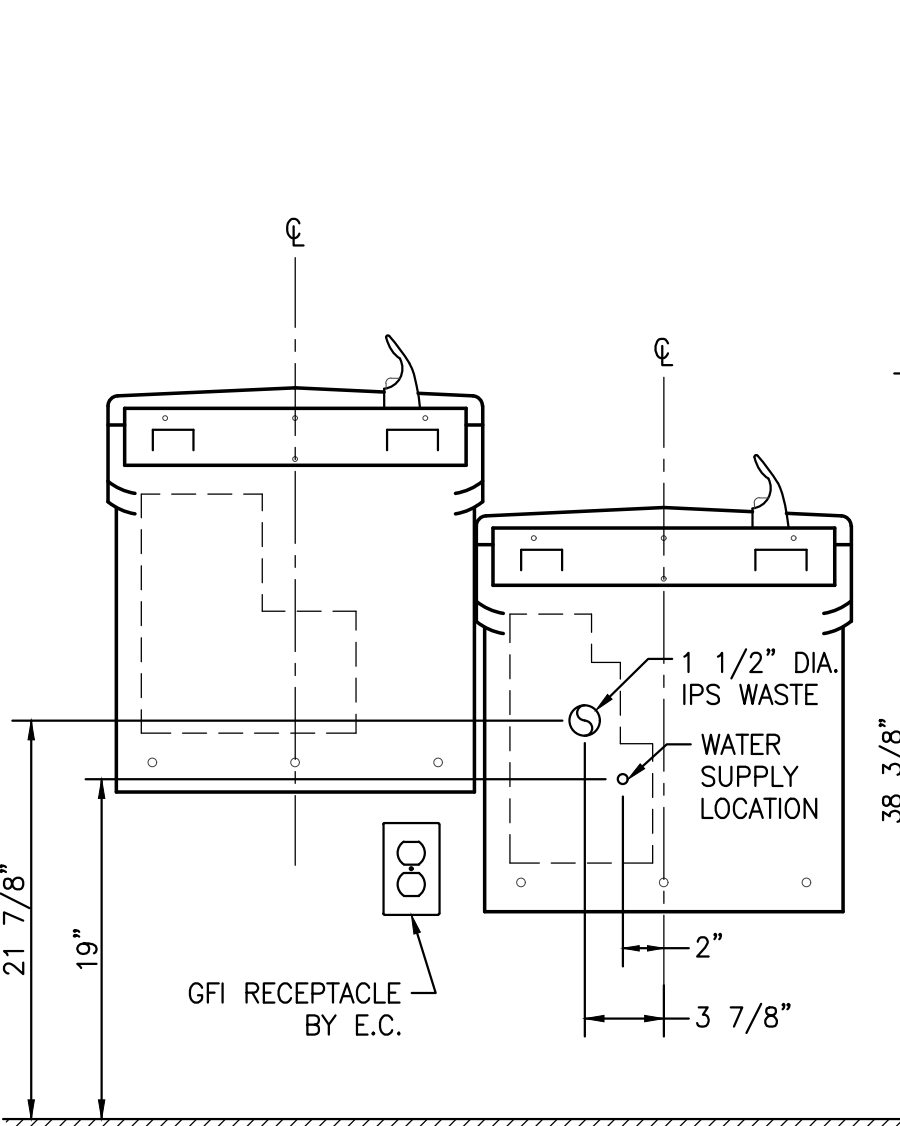
NOTES:
1. PROVIDE ADA LAVATORIES WITH PRE-WRAPPED ANTI-MICROBIAL MOLDED CLOSED CELL VINYL ON EXPOSED HOT & COLD WATER AND DRAIN LINES.
2. WATER SUPPLY INLETS AND RISERS SHALL BE BRASS OR COPPER (CHROME PLATED WHERE EXPOSED TO VIEW).

2 WALL MOUNTED LAVATORY DETAIL
SCALE: N.T.S.



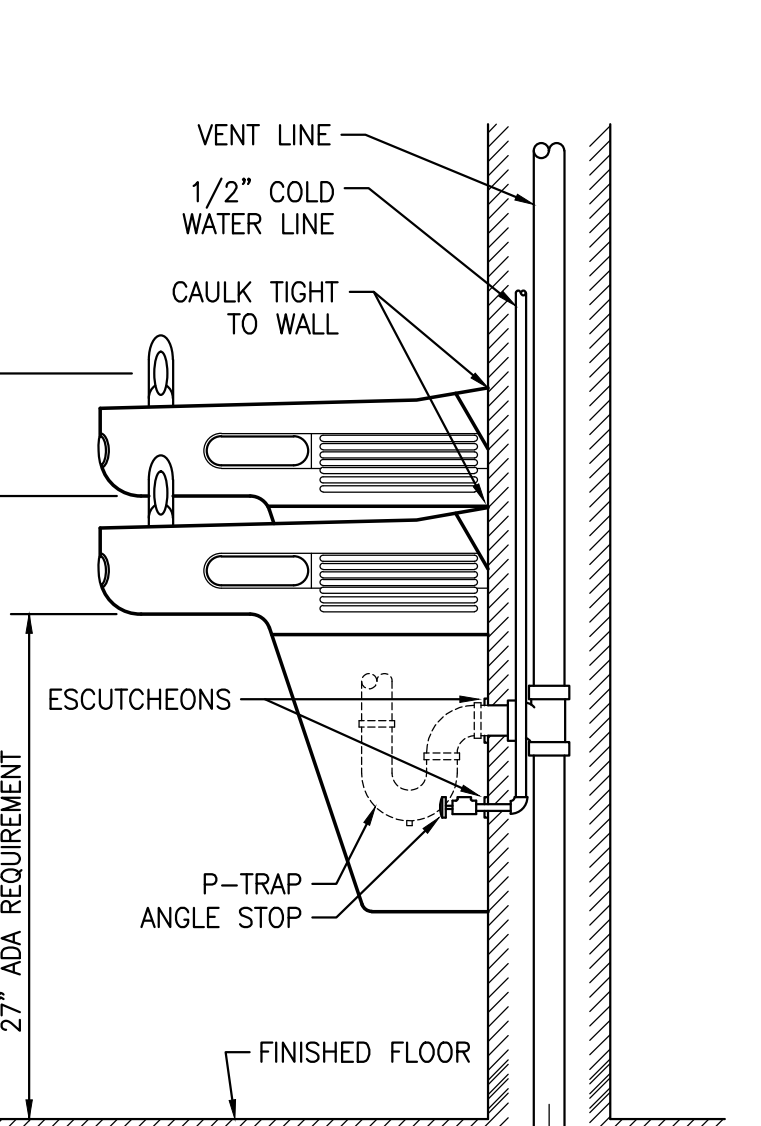
NOTES:
1. G.C. SHALL PROVIDE ADA COMPLIANT UNDERSPACE SINK PROTECTIVE ENCLOSURES FOR ALL ADA SINKS.
2. WATER SUPPLY INLETS AND RISERS SHALL BE BRASS OR COPPER (CHROME PLATED WHERE EXPOSED TO VIEW.)

3 COUNTERTOP MOUNTED SINK DETAIL
SCALE: N.T.S.



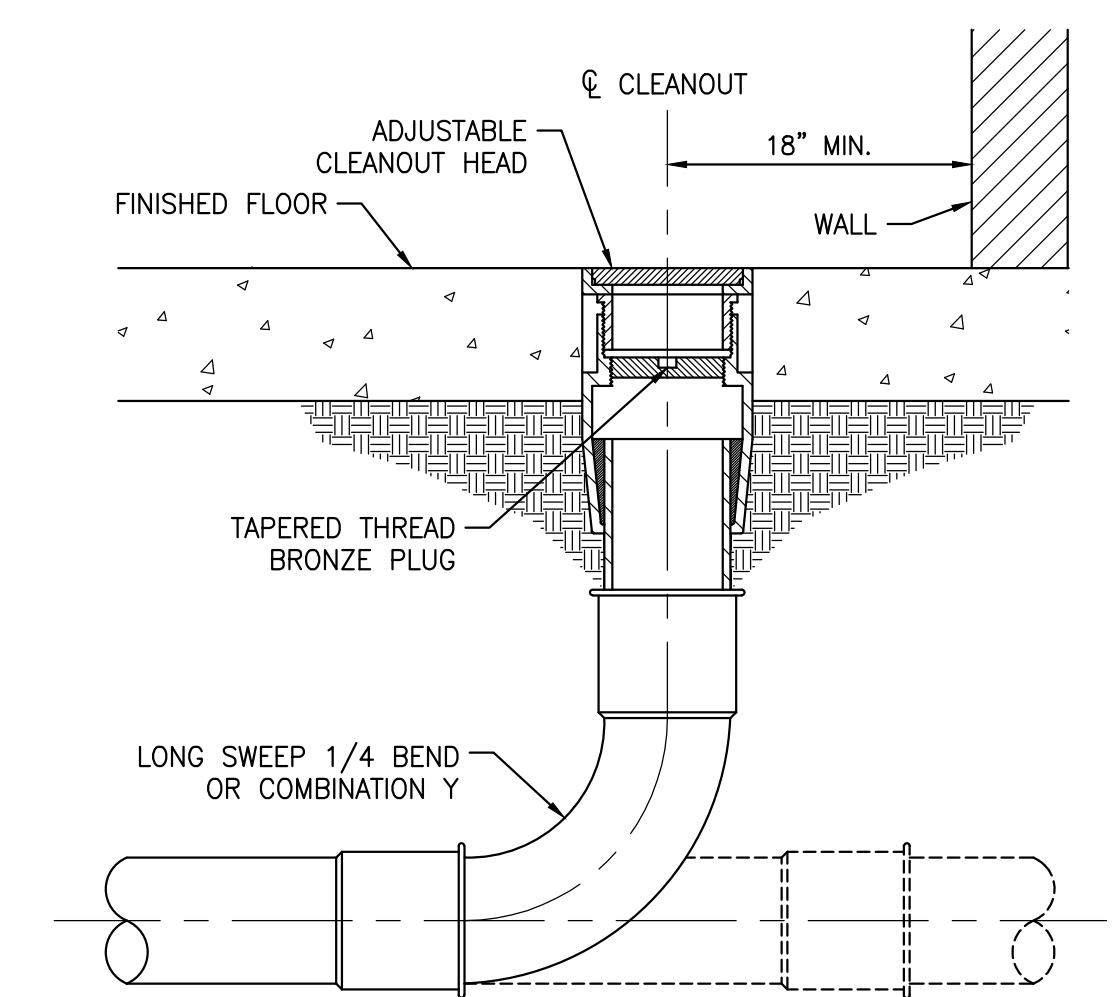
NOTES:
1. PROVIDE APRON ACCESSORY ON UPPER SPLIT LEVEL UNITS WHEN INSTALLED IN NON-RECESSED APPLICATIONS.
2. COORDINATE SOLID SUPPORT WOOD BLOCKING REQUIREMENTS WITH G.C.
3. COORDINATE RECEPTACLE MOUNTING LOCATION WITH E.C. PER INSTALLATION INSTRUCTIONS.

4 WALL MOUNTED ELECTRIC WATER COOLER DETAIL
SCALE: N.T.S.

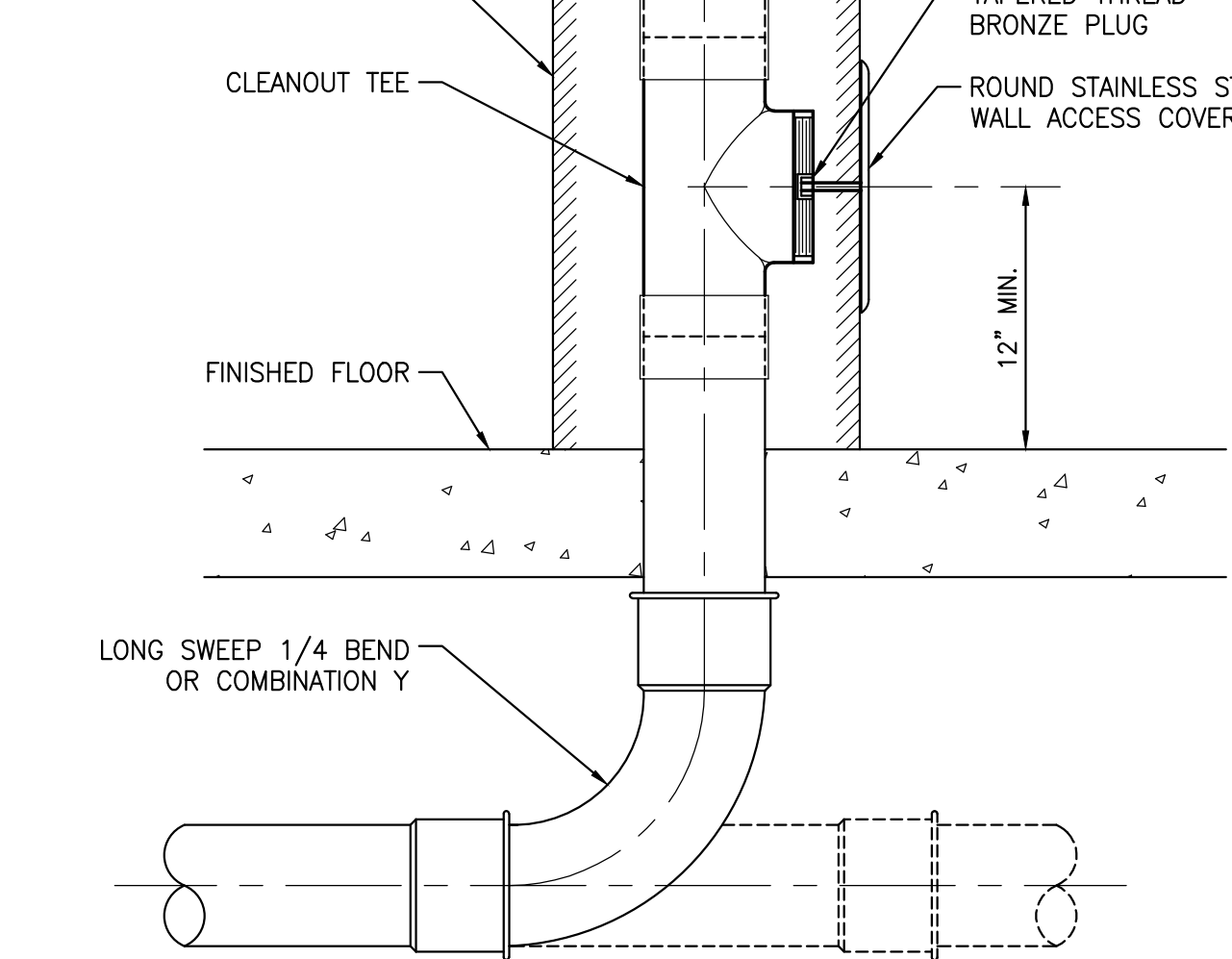


NOTES:
1. PROVIDE APRON ACCESSORY ON UPPER SPLIT LEVEL UNITS WHEN INSTALLED IN NON-RECESSED APPLICATIONS.
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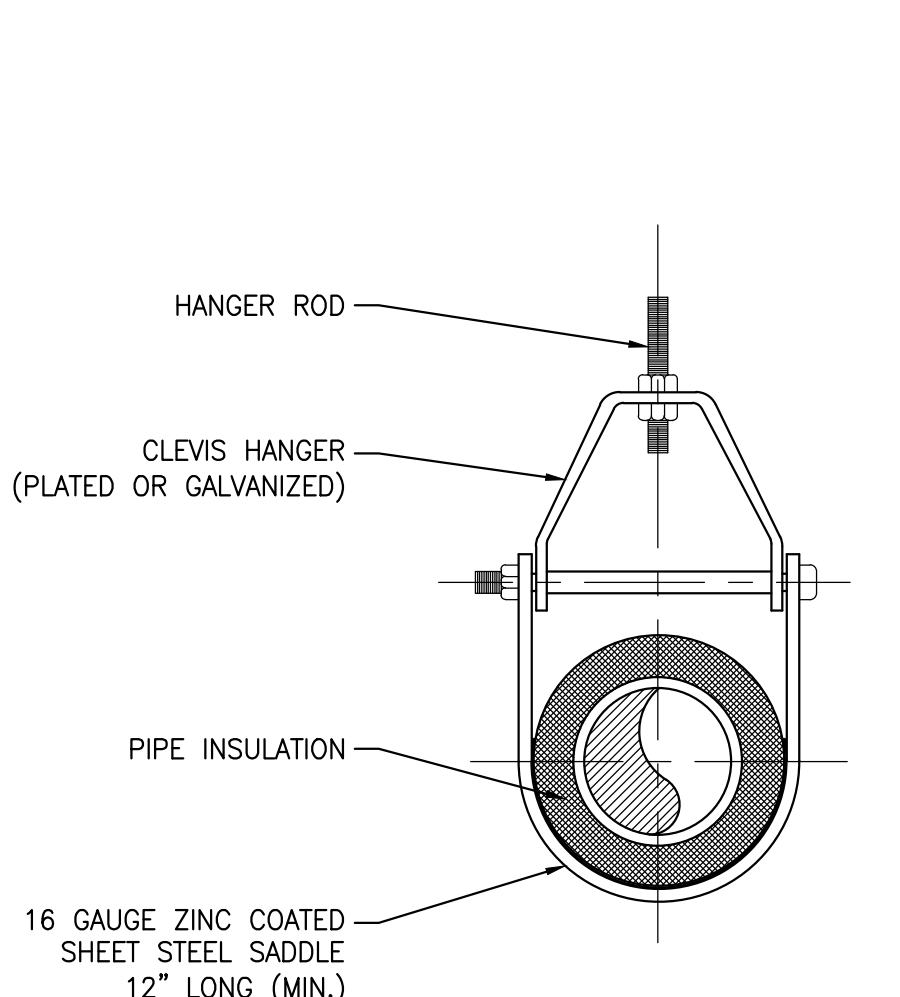
5 CLEANOUT ON GRADE WITH LONG SWEEP BEND DETAIL
SCALE: N.T.S.



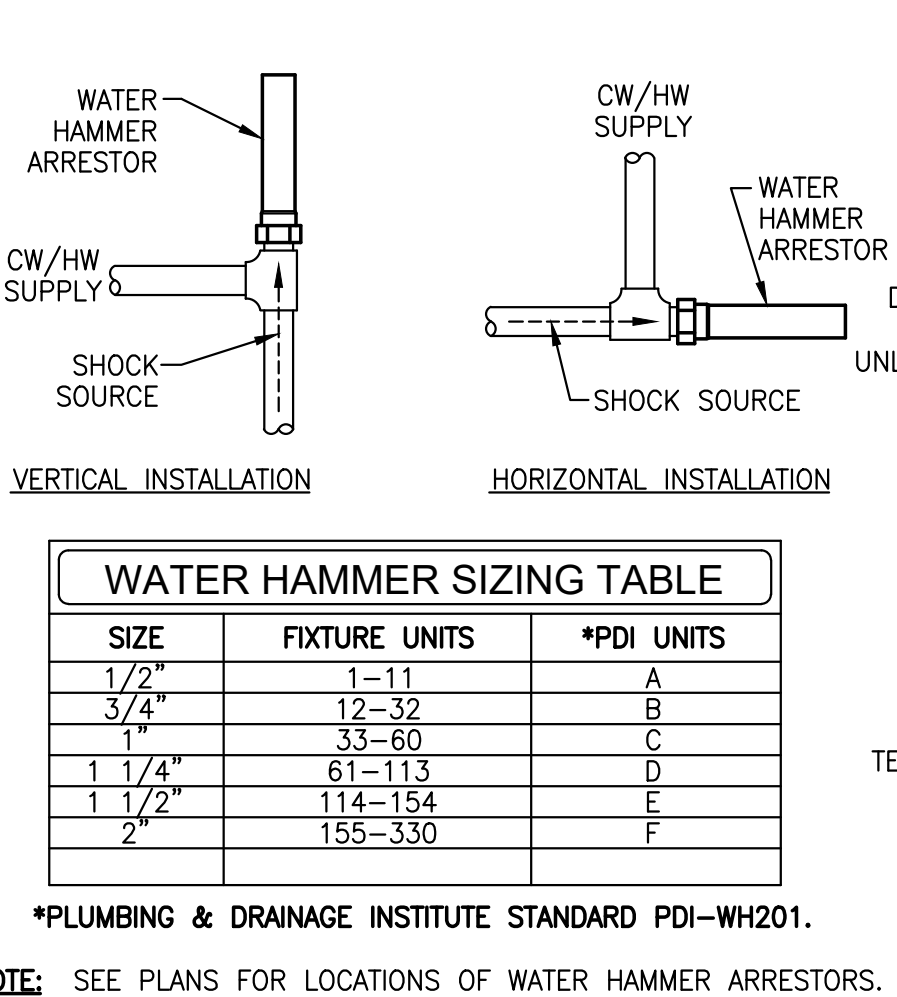
6 FLOOR CLEANOUT WITH SWEEP BEND OR COMBINATION Y DETAIL
SCALE: N.T.S.



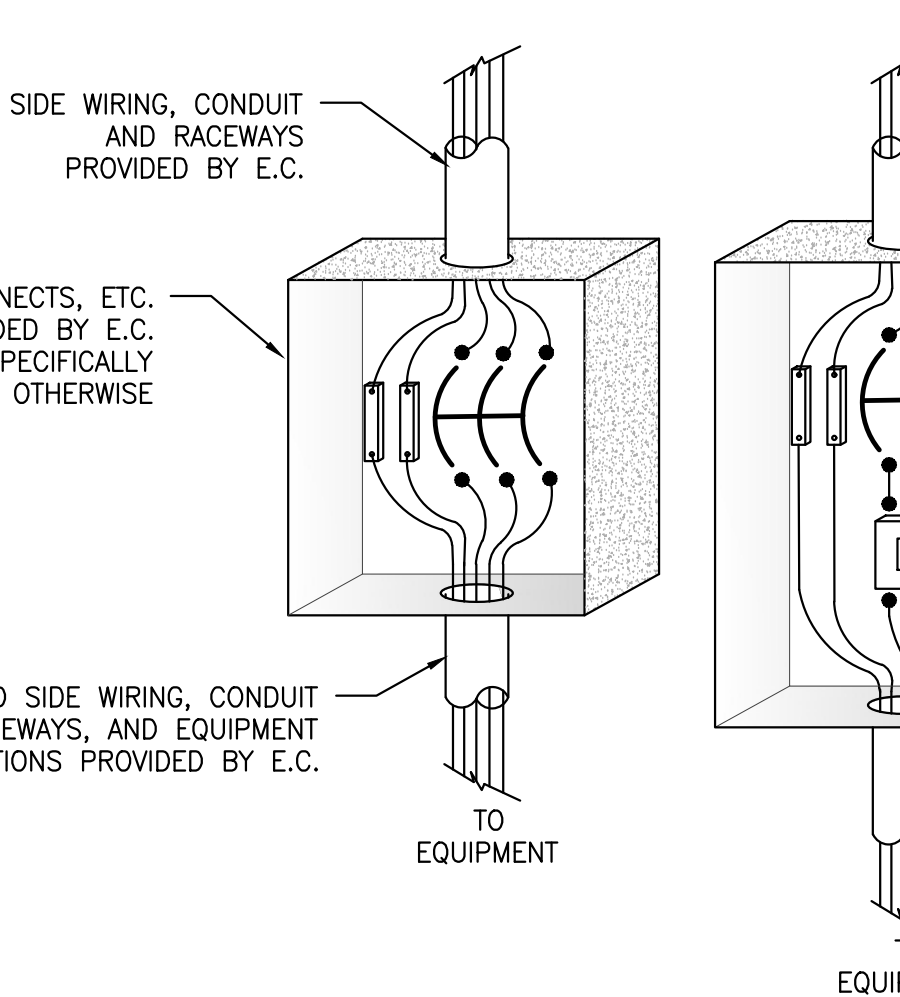
7 WALL CLEANOUT WITH SWEEP BEND OR COMBINATION Y DETAIL
SCALE: N.T.S.



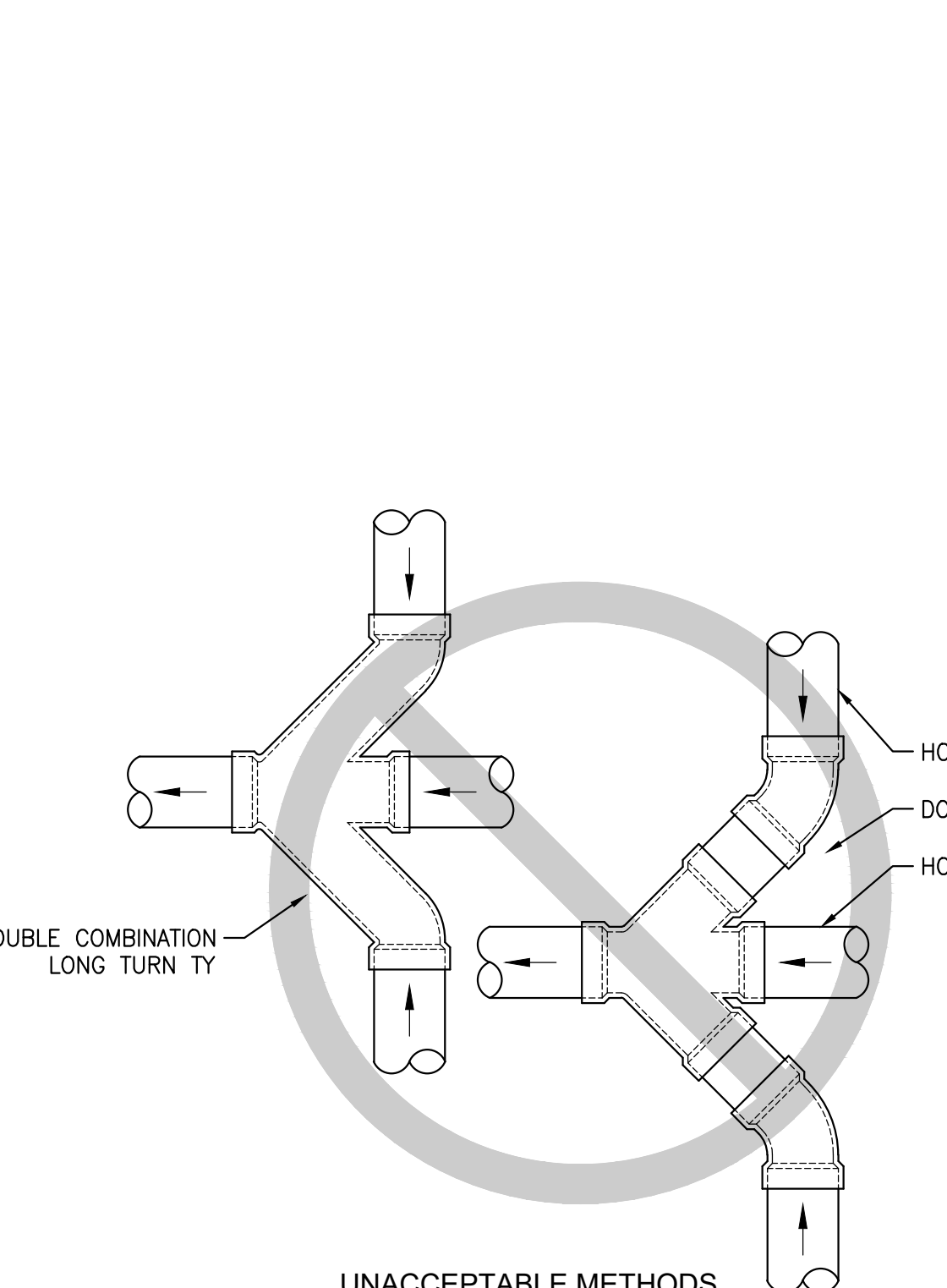
8 CLEVIS PIPE HANGER DETAIL
SCALE: N.T.S.



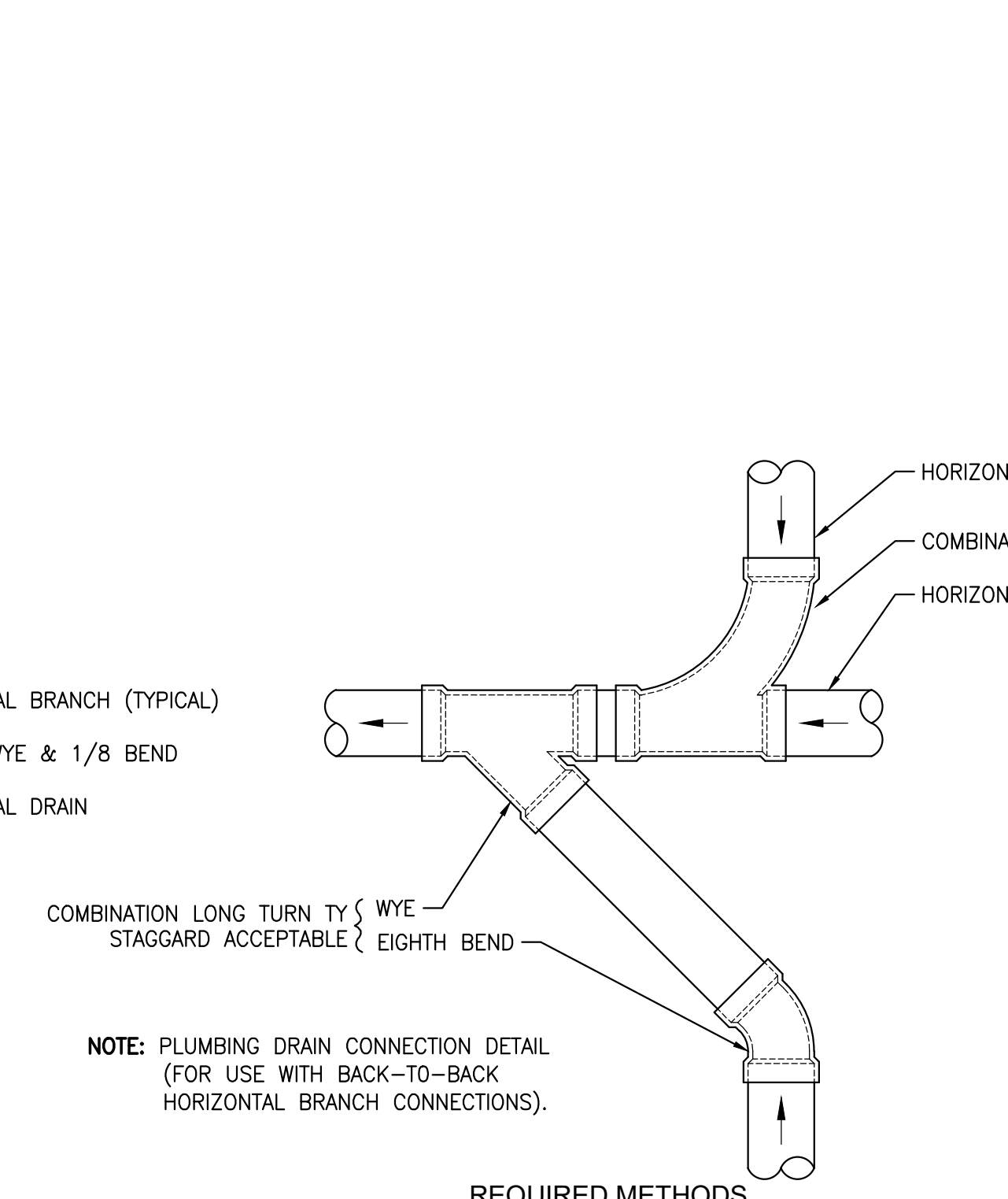
9 WATER HAMMER ARRESTOR DETAIL
SCALE: N.T.S.



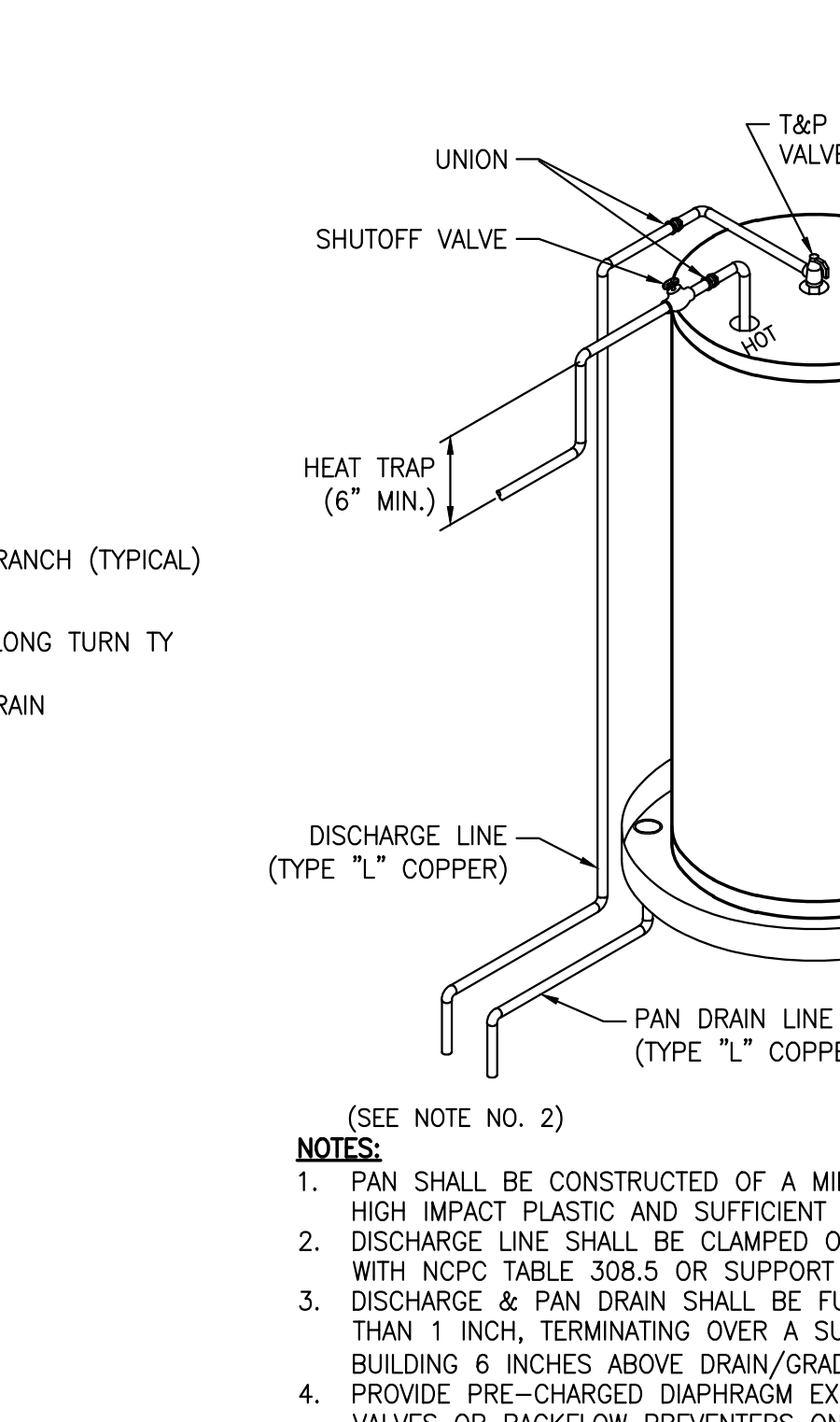
10 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.



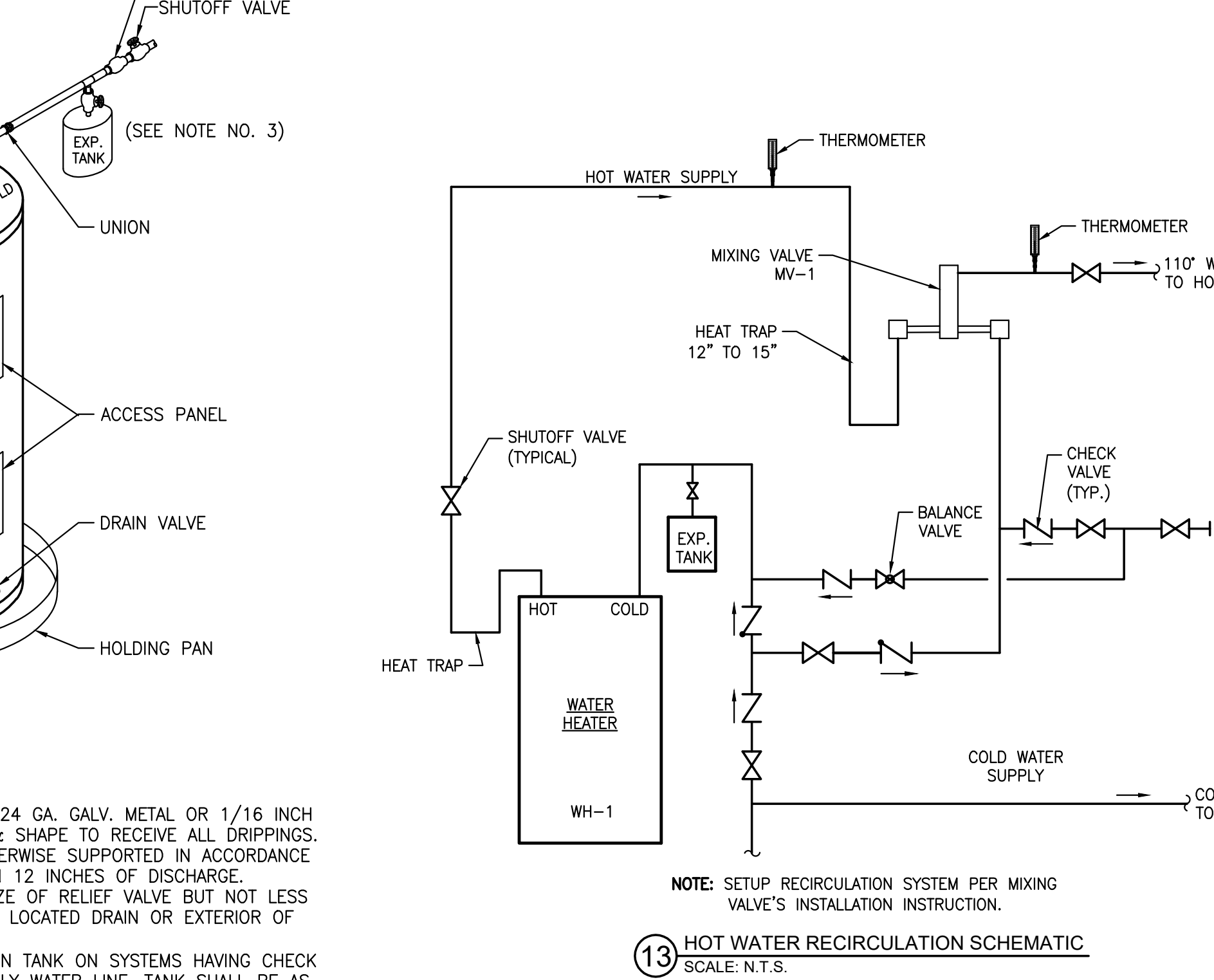
11 HORIZONTAL DRAIN CONNECTION DETAIL
SCALE: N.T.S.



12 ATTIC MOUNTED ELECTRIC WATER HEATER DETAIL
SCALE: N.T.S.



13 HOT WATER RECIRCULATION SCHEMATIC
SCALE: N.T.S.



14 HOT WATER RECIRCULATION SCHEMATIC
SCALE: N.T.S.

PLUMBING LEGEND		
SYMBOL	ABBR	DESCRIPTION
----	CW	COLD WATER LINE
----	HW	HOT WATER LINE
----	HWR	HOT WATER RETURN LINE
----	W	SOIL OR WASTE LINE
----	VT	VENT LINE
+	VTR	VENT THRU ROOF
WCO	WCO	WALL CLEANOUT
FCO	FCO	FLOOR CLEANOUT
COG	COG	CLEANOUT ON GRADE
HB	HB	HOSE BIB/HYDRANT
FHB	FHB	FROSTPROOF HOSE BIB/HYDRANT
WA	WA	WATER ARRESTOR (PDI SIZE "A")
-	-	SHUTOFF VALVE
BFP	BFP	BACKFLOW PREVENTER
-	-	UNION
-	-	THERMOMETER
-	-	CONCENTRIC REDUCER
-	-	FLOW DIRECTION ARROW
-	-	FIXTURE MARK (SEE SCHEDULE)
-	-	NEW/EXISTING CONNECTION
G.C.	G.C.	GENERAL CONTRACTOR
P.C.	P.C.	PLUMBING CONTRACTOR
M.C.	M.C.	MECHANICAL CONTRACTOR
E.C.	E.C.	ELECTRICAL CONTRACTOR
AFF	AFF	ABOVE FINISHED FLOOR
AFG	AFG	ABOVE FINISHED GRADE
BFG	BFG	BELOW FINISHED GRADE

PLUMBING NOTES:

- PLUMBING PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE PLUMBING SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A COMPLETE AND OPERATING SYSTEM.
- CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF PLUMBING INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. THE EXACT LOCATION AND DETAILS OF EQUIPMENT MAY REQUIRE DEVIATIONS FROM PLANS AS THEY ARE DIAGRAMMATIC. DRAWINGS ALLOW FOR SHOWING SYMBOLS AND MULTIPLE PIPES TO PRINT CLEARLY. MATERIALS SHALL BE INSTALLED THAT ALLOW FOR EASY ACCESS, MAINTENANCE, AND OVERALL GOOD QUALITY OF WORK.
- PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE SITE, AND RESOLVE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE PLANS WITH THE ENGINEER. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH 2018 NC PLUMBING CODE & ADA CODES, AS WELL AS FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. BY APPROVAL AND SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ENGINEER, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED AND CHECKED THE INFORMATION WITHIN THE SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE ON SUBMITTAL OF ANY DEVIATIONS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS REQUIREMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS OR OTHER SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND SUCH DEVIATION HAS BEEN APPROVED IN WRITING.
- PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- COORDINATE CONNECTION OF PLUMBING SYSTEMS WITH SITE UTILITIES AND SERVICES. P.C. SHALL EXTEND WATER SUPPLY LINE 5- FEET OUTSIDE OF BUILDING AND EXTEND BUILDING DRAIN 10- FEET OUTSIDE OF BUILDING & PROVIDE 2-WAY CLEANOUT.
- COORDINATE VENT THRU ROOF (VTR) LOCATIONS WITH OUTSIDE AIR INTAKES OF HVAC UNITS TO MAINTAIN A MINIMUM CLEARANCE OF 20 FEET. VTR SHALL BE LOCATED ON REAR OF PITCHED ROOF BUILDINGS AND NOT VISIBLE FROM FRONT OF BUILDING.
- CONTRACTOR SHALL COORDINATE LOCATION & TYPE OF VTR BOOTS WITH G.C.. CONTRACTOR SHALL FURNISH & INSTALL THE REQUIRED BOOTS. G.C. SHALL ENGAGE ROOFING CONTRACTOR TO ASSURE WEATHER-TIGHTNESS OF INSTALLATION. ANY EXPOSED PVC PIPING SHALL BE PAINTED WITH 2-COATS OF LATEX PAINT – COLOR SELECTED BY ARCHITECT.
- COORDINATE INSTALLATION OF PLUMBING LINES WITH BLOCK WALLS SO THAT ALL LINES ARE PLACED WITHIN WALLS DURING WALL CONSTRUCTION. CUTTING AND PATCHING OF WALLS IN PLACE IS NOT PERMITTED.
- DRAIN, WASTE & VENT (DWV) PIPING SHALL BE ASTM D 2665, SOLID-WALL, SCHEDULE 40 PVC WITH SOLVENT-WELDED SOCKET TYPE FITTINGS (FOAM CORE PIPING IS NOT ACCEPTABLE). INSTALL PVC PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE AND FITTINGS MANUFACTURER, APPENDIX X1 OF ASTM D2265 AND FOR BURIED PIPE ASTM D2321. SUCH INSTRUCTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS, ALIGNMENT AND GRADE, TRENCHING, BEDDING, BACKFILL AND COMPACTION, SUPPORTS AND SPACING AND ALLOWANCE FOR THERMAL EXPANSION.
- ABOVE GRADE/SLAB WATER PIPING SHALL BE ASTM B 88, HARD DRAWN, TYPE L COPPER WITH SOLDERED, BRAZED WROUGHT-COPPER FITTINGS OR VIEGA PROPPRESS FITTINGS.
- BELOW GRADE/SLAB WATER PIPING (INSIDE OF BUILDING) SHALL BE ASTM B 88, SOFT ANNEALED, TYPE K COPPER WITH SOLDERED OR BRAZED WROUGHT-COPPER FITTINGS. MINIMIZE JOINTS BELOW SLAB.
- DOMESTIC WATER SERVICE PIPING: (SEE SITE PLANS).
- WATER PIPE & FITTINGS AND LEAD FREE SOLDER & FLUX SHALL BE IN ACCORDANCE WITH NC PLUMBING CODE SECTION 605.
- INDIVIDUAL SUPPLY AND DRAIN CONNECTIONS SIZES ARE NOT INDICATED ON PLANS FOR CLARITY. SIZE EACH TO SUIT RESPECTIVE FIXTURE.
- HOT WATER RE-CIRCULATION PIPING SHALL BE ROUTED WITHIN 12" HORIZONTALLY OF THE VERTICAL PIPE FEEDING THE FIXTURE.
- WATER PIPING ON OUTSIDE WALLS AND IN CEILING SHALL BE LOCATED BETWEEN BUILDING INSULATION AND CONDITIONED SPACE.
- PROVIDE SHUTOFF VALVES AT EACH MAIN BRANCH LINE. VALVES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. PROVIDE CEILING ACCESS DOORS WHERE REQUIRED TO ACCESS SERVICEABLE VALVES LOCATED ABOVE GYPBOARD CEILINGS.
- UNLESS NOTED OTHERWISE ALL VALVES SHALL BE FULL PORT BRONZE OR BRASS BALL VALVES WITH THREADED OR SWEAT CONNECTIONS AS APPLICABLE TO THE CONNECTING PIPING.
- PROTECT COPPER PIPING FROM DIRECT CONTACT WITH MASONRY OR DISSIMILAR METAL. HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER PLATED OR PROVIDED WITH ELECTROLYTIC ISOLATION MATERIAL ON COPPER PIPING. ALL OTHER HANGERS AND SUPPORTS SHALL BE PAINTED OR GALVANIZED. PIPING PASSING THROUGH CONCRETE/MASONRY WALLS OR FLOORS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY PROTECTIVE SHEATHING OR WRAPPING.
- INSTALL SCHEDULE 80 PVC OR DUCTILE IRON PIPE SLEEVE TWO SIZES LARGER AT PENETRATIONS THROUGH OR UNDER FOOTINGS OR FOUNDATION WALLS. SEAL SLEEVE TIGHT TO FOUNDATION WALL.
- PROVIDE MECHANICAL WATER HAMMER ARRESTORS AS SHOWN ON PLANS, WATER RISER, OR AS REQUIRED BY SYSTEM.
- PROVIDE INSULATION EQUAL TO MCGUIRE PROWRAP ON P-TRAP ASSEMBLIES AND HOT & COLD WATER PIPING FOR LAVATORIES WITH EXPOSED PIPING.
- VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
- INSTALL PLUMBING FIXTURES AND EQUIPMENT LEVEL & PLUMB. ROUTE PIPING PARALLEL & PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MFG'S WRITTEN INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS.
- ALL FIXTURES & EXPOSED SURFACES SHALL BE WASHED & CLEANED AND PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
- DWV AND WATER DISTRIBUTION PIPING SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE SECTION 312.
- POTABLE WATER PIPING SHALL BE PURGED AND DISINFECTED. FLUSH SYSTEM WITH CLEAN, POTABLE WATER. ISOLATE AND FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 200 PPM OF CHLORINE. ALLOW TO STAND FOR THREE HOURS. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE SOLUTION IS REMOVED. SUBMIT WATER SAMPLE REPORT TO AUTHORITY HAVING JURISDICTION.
- GARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.

PLUMBING FIXTURE SCHEDULE						
FIX. NO.	DESCRIPTION	CW	HW	DRAIN	FAUCETS, VALVES & ACCESSORIES	NOTES
WC-1A	WATER CLOSET TANK TYPE, FLOOR MOUNTED, ELONGATED LOW-CONSUMPTION (1.6 GPF) FULLY GLAZED 2 1/8 MIN. BALL PASS TRAPWAY MEETS ASME A112.19.2M & 19.6M ADA (+/-17" RIM HEIGHT)	1/2"		3"	FIXTURE BY: AMERICAN STANDARD, SLOAN OR KOHLER SEAT: SELF-SUSTAINING WITH OPEN FRONT LESS COVER MATERIAL: VITREOUS CHINA COLOR: WHITE	TANK SHALL HAVE RIGHT HAND OR LEFT HAND TRIP LEVER AS REQUIRED TO MEET ADA (SEE DETAIL)
LA-1A	WALL HUNG LAVATORY WHITE 20"x18" WITH BACK & SIDE SPLASH SHIELDS CHROME SINGLE LEVER FAUCET (0.5 GPM AERATOR) MEETS ASME A112.19.2M ADA & NON-ADA APPLICATIONS	3/8"	3/8"	1 1/4"	FIXTURE BY: AMERICAN STANDARD MURRO 0954.004EC (4" CENTERSET), SLOAN OR KOHLER FAUCET: EQUAL TO DELTA 523LF-HGMHDF (4" CENTERSET) STRAINER: MCGUIRE 155A MATERIAL: VITREOUS CHINA SINK AND KNEE SHROUD WALL CARRIER: ZURN 21231 OR Z1231-D SHROUD: AMERICAN STANDARD 0059.020EC (VITREOUS CHINA)	- REFER TO ARCHITECTURAL DWGS FOR SPECIFIC MOUNTING HEIGHTS - PROVIDE WITH 3/8" BRAIDED STAINLESS LAVATORY RISERS (MCGUIRE SSLAV)
SK-1A	DOUBLE BOWL SINK (33" X 22" X 8") 18 GAUGE TYPE 304, 18-8 STAINLESS STEEL SOUND DEADENING COATING SIDES AND BOTTOM DUAL LEVER FAUCET WITH SPRAYER (1.5 GPM AERATOR) ADA COMPLIANT	1/2"	1/2"	1 1/2"	FIXTURE BY: ELKAY, JUST, KOHLER OR MOEN FAUCET: EQUAL TO DELTA 27C1934 STRAINER: MCGUIRE 151A RISER: 3/8" BRAIDED STAINLESS (MCGUIRE SSLAV)	LISTED SIZES INDICATE SIDE TO SIDE DIMENSION X FRONT TO BACK DIMENSION X DEPTH
DF-1A	ELECTRIC WATER COOLER DUAL LEVEL, WALL MOUNT WITH STAINLESS STEEL CABINET ADA COMPLIANT	3/8"		1 1/4"	EQUAL TO ELKAY EZSTL8C BUBBLER: FLEXI-GUARD ANTI-MICROBIAL SAFETY TYPE CABINET FINISH: STAINLESS STEEL OPTION ELECTRICAL: 4 AMPS @ 120V/1PH SUPPORT: ZURN Z1225 WITH DURA-COAT	PROVIDE WITH CANE APRON OPTION IN NON-RECESSED APPLICATIONS.

PLUMBING SPECIALTIES SCHEDULE				
MARK	DESCRIPTION	MANF.	REFERENCE MODEL NO.	NOTES
FCO	ADJUSTABLE FLOOR CLEANOUT WITH BRONZE PLUG	MIFAB	C1220-1-34B-P	SEE PLANS FOR SIZES, NICKEL BRONZE TOP
COG	WHEEL TRAFFIC CLEANOUT ON GRADE WITH BRONZE PLUG	MIFAB	C1220-4-34B-P-XR	SEE PLANS FOR SIZES, HEAVY DUTY TOP
WCO	WALL CLEANOUT WITH BRONZE PLUG & S.S. COVER	MIFAB	C1430-RD	SEE PLANS FOR SIZES
WHA	WATER HAMMER ARRESTOR	PPP	SWA (PDI SIZE)	
MY-1	THERMOSTATIC MIXING VALVE (SETPOINT: 110°F)	LEONARD	Z70-LF-SW-DT (1/2" INLET/OUTLET)	7.5 GPM @ 20 PSI PRESSURE DROP
EXP	WATER HEATER EXPANSION TANK	A.O. SMITH	PWC-2 (2 GALLON)	
RP-1	HOT WATER RECIRCULATION PUMP WITH AUTOMATIC TIMER	B&G	NBF-220 WITH HONEYWELL L4008 AQUASTAT	120V CONNECTION REQUIRED (1 AMP)
BFP-1	BACKFLOW PREVENTER (RPZ) - DOMESTIC WATER	WATTS	LFO09M2QT-S-1"	PROVIDED WITH HEATED ENCLOSURE
BFP-2	BACKFLOW PREVENTER (RPZ) - DOMESTIC WATER	WATTS	LFO09M2QT-S-1 1/4"	PROVIDED WITH HEATED ENCLOSURE

PLUMBING PIPING INSULATION TABLE						
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS
DOMESTIC WATER	BUILDING ENVELOPE	PREFORMED GLASS FIBER	ASJ	COLD 1/2" OR LESS COLD 3/4" - 3" HOT 1 1/2" OR LESS HOT > 1 1/2" HW RECIRCULATION	1/2" 1" 1" 1.5" 1"	-
	UNCONDITIONED SPACE	PREFORMED GLASS FIBER	ASJ	ALL	1 1/2"	R-VALUE: 6.5 MINIMUM

NOTES:

- ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

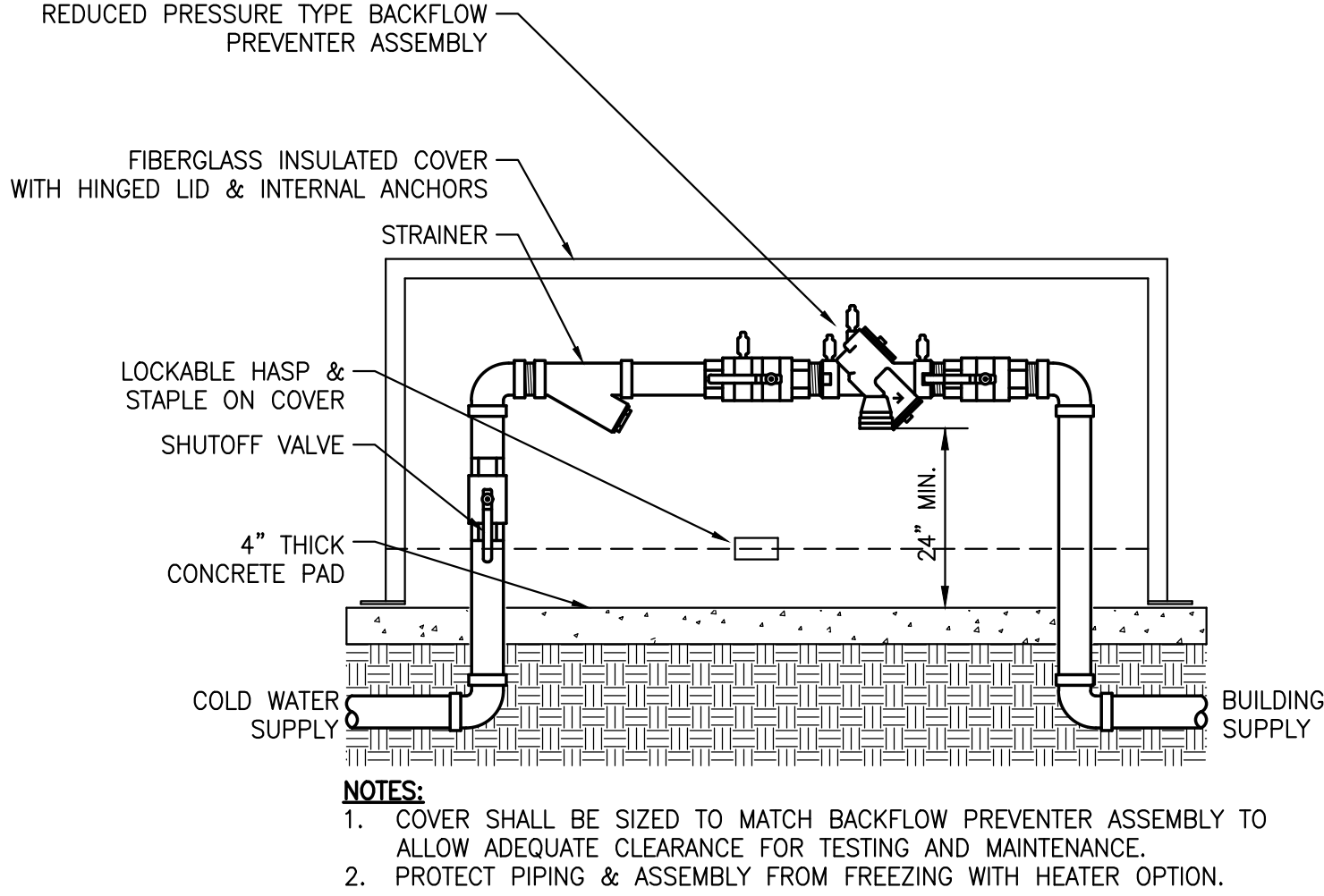
ELECTRIC WATER HEATER SCHEDULE												
MARK	SIZE	GPH	TEMP. RISE	KW	VOLT/PH	FLA	CW CONN.	HW CONN.	MANF.	REF. MODEL	OPERATING WEIGHT	SIZE HTxDIA
WH-1	40 GAL	23.0	80°F	4.5	1240V/1ø	19	3/4"	3/4"	A.O. SMITH	DEL-40	460 LBS	32"x24"x6"

NOTES:

- SET OUTLET WATER TEMPERATURE AT 110°F.
- PROVIDE WITH 3-YEAR TANK WARRANTY AND 1-YEAR PARTS WARRANTY.

EQUAL MANUFACTURERS		
DESCRIPTION	SPECIFIED MANUFACTURER	ACCEPTABLE SUBSTITUTIONS
WATER CLOSETS	AMERICAN STANDARD	CRANE, KOHLER, MANSFIELD
URINALS	AMERICAN STANDARD	CRANE, KOHLER, ELJER
FLUSH VALVES	SLOAN	ZURN
LAVATORIES	AMERICAN STANDARD	CRANE, KOHLER
STAINLESS STEEL SINKS	JUST	ELKAY, KOHLER, MOEN
MOP SINKS	FIAT	ACORN, STERN WILLIAMS
DRINKING FOUNTAINS	OASIS	ACORN, ELKAY, SUNROCK, HAWS
FAUCETS	DELTA	BRADLEY, CHICAGO, KOHLER, MOEN
WATER HEATERS	STATE	RHEEM, A.O. SMITH, GEC
DRAINS & CLEANOUTS	ZURN	JOSAM, JR SMITH

NOTE: SPECIFIED PRODUCTS INDICATE QUALITY AND OPTIONS REQUIRED FOR THIS PROJECT. EQUAL PRODUCTS/MANUFACTURERS ARE ACCEPTABLE.



① RPZ BACKFLOW PREVENTER DETAIL
SCALE: N.T.S.



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PROJECT NO. 224011 PROJECT MGR. D. HAM
DRAWN BY D. HILL



REVISIONS:

|DESC:| DATE

DRAWN BY: DJH/SAL

PROJECT #: 23018


ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION
DOCUMENTS

SHEET NAME & NUMBER

PLUMBING SCHEDULES

P3.1



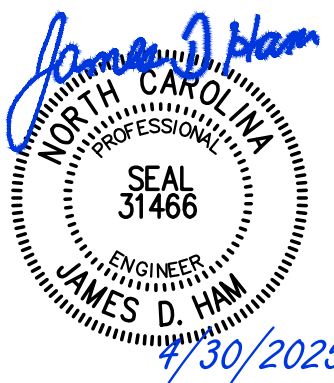
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MECHANICAL DEMO PLAN

- DEMOLITION NOTES:
1. PRIOR TO SUBMITTING A BID, CONTRACTOR MUST VISIT THE JOB SITE IN ORDER TO HAVE A WORKING KNOWLEDGE OF THE EXISTING SYSTEMS AND CONDITIONS.

2. DEMOLITION PLANS SHOW APPROXIMATE LOCATIONS OF EXISTING MECHANICAL SYSTEMS. ALL ITEMS ENCLOSED IN THE STRUCTURE MAY NOT BE NOTED OR MAY BE SHOWN SCHEMATICALLY. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TERMINATIONS, CAPS AND RECONNECTIONS REQUIRED TO INSTALL A COMPLETE HVAC SYSTEM. INFORMATION IS BASED ON NON-DESTRUCTIVE FIELD INVESTIGATION AND/OR EXISTING DRAWING INFORMATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONDITIONS THAT REQUIRE CORRECTIVE ACTION BEYOND THE SCOPE OF THESE PLANS. ALL FIELD CORRECTIONS SHALL BE RED-LINED AND PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

3. MECHANICAL CONTRACTOR SHALL MEASURE SYSTEM AIR FLOWS FOR ALL RENOVATED AREAS PRIOR TO DEMOLITION WORK. SUBMIT PRE-CONSTRUCTION AIRFLOW REPORT TO ENGINEER.

4. MECHANICAL CONTRACTOR SHALL DOCUMENT INTERIOR CLEANLINESS CONDITION OF RETURN DUCTS AND AIR HANDLING EQUIPMENT SERVING RENOVATED AREAS PRIOR TO DEMOLITION WORK. SUBMIT DIGITAL PHOTOS TO ENGINEER.

5. ALL CONCEALED PIPING, NOT READILY REMOVABLE SHALL BE CAPPED BELOW FINISH SURFACES. REMOVE ALL EXISTING EQUIPMENT SUPPORTS NOT BEING USED.

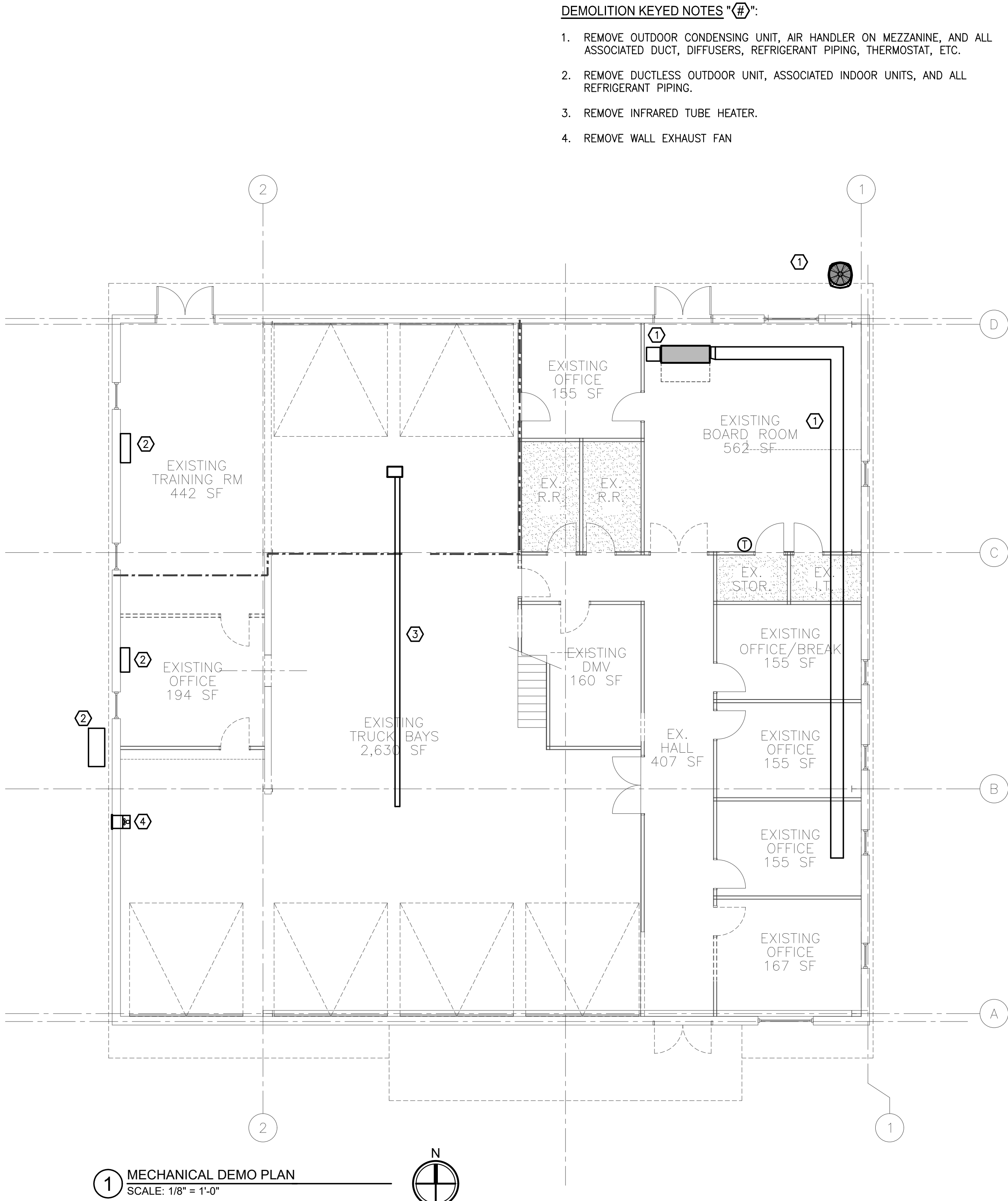
6. GENERAL CONTRACTOR SHALL REPAIR ALL WALL, FLOOR & CEILING OPENINGS FROM DEMOLITION OF MECHANICAL WORK. FINISH SURFACES SHALL BE RESTORED TO MATCH ORIGINAL CONDITION. MECHANICAL CONTRACTOR SHALL TAKE EXTREME CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING SURFACES.

7. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AND WASTE MATERIALS OF DEMOLITION & CONSTRUCTION UNLESS DIRECTED OTHERWISE. THE OWNER RESERVES THE RIGHT TO RETAIN ANY ITEM WHETHER NOTED ON PLANS OR NOT.

8. A CERTIFIED TECHNICIAN SHALL RECLAIM REFRIGERANTS FROM AIR CONDITIONING EQUIPMENT NOTED TO BE DEMOLISHED. RECLAIM PROCESS & TRANSPORTING TO RECLAIM CENTER SHALL FOLLOW AHRI GUIDELINES.

9. BUILDING SYSTEMS SHUTDOWN – MECHANICAL CONTRACTOR SHALL COORDINATE WITH OWNER 48 HOURS BEFORE ANY UNAVOIDABLE SYSTEMS SHUTDOWN.

10. REFERENCE AND COORDINATE WITH ARCHITECTURAL PLANS FOR CONSTRUCTION PHASING. OWNER WILL OCCUPY THE EAST SIDE OFFICE WHILE THE EXISTING TRUCK BAYS ARE UNDER CONSTRUCTION.





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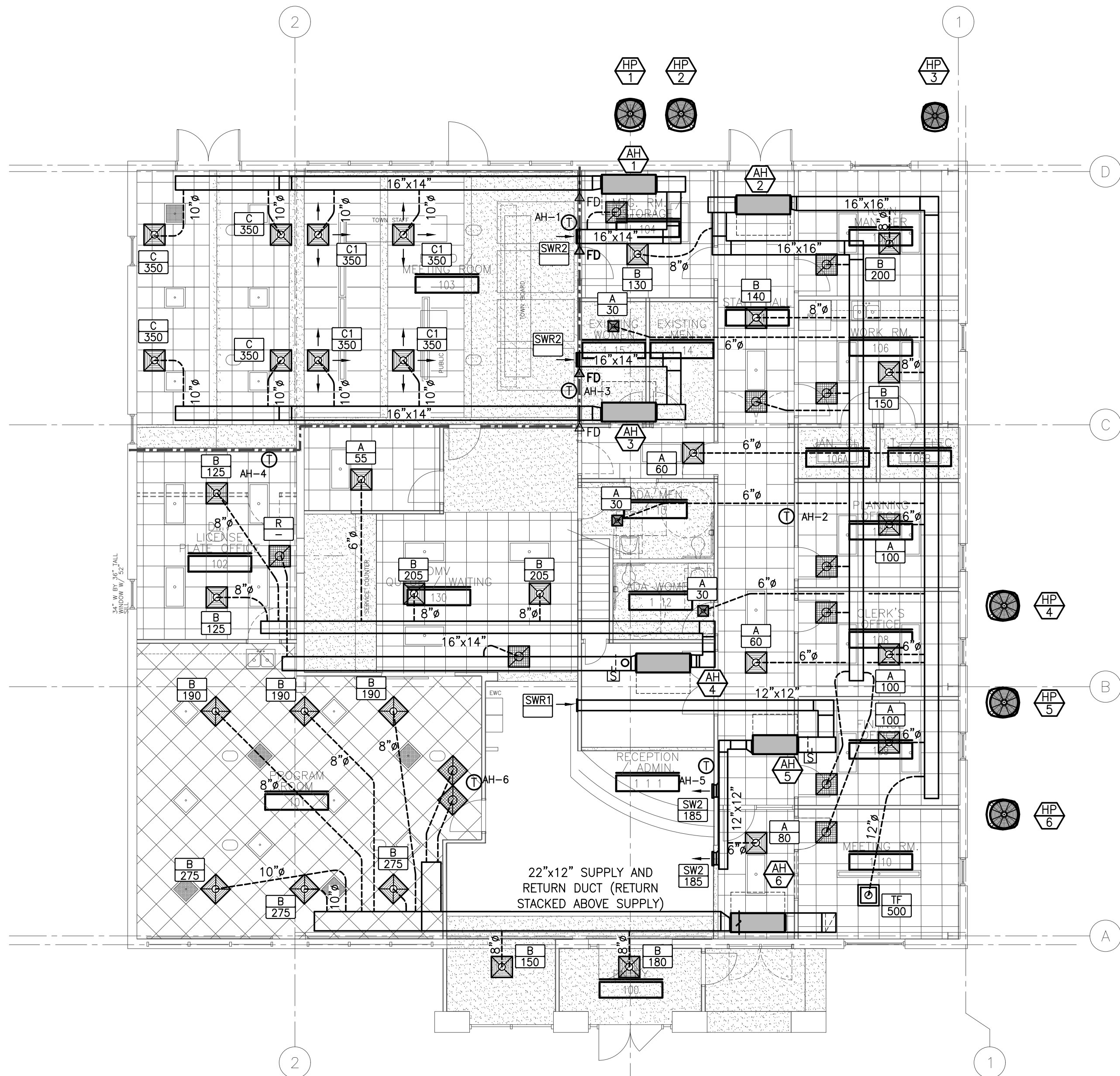
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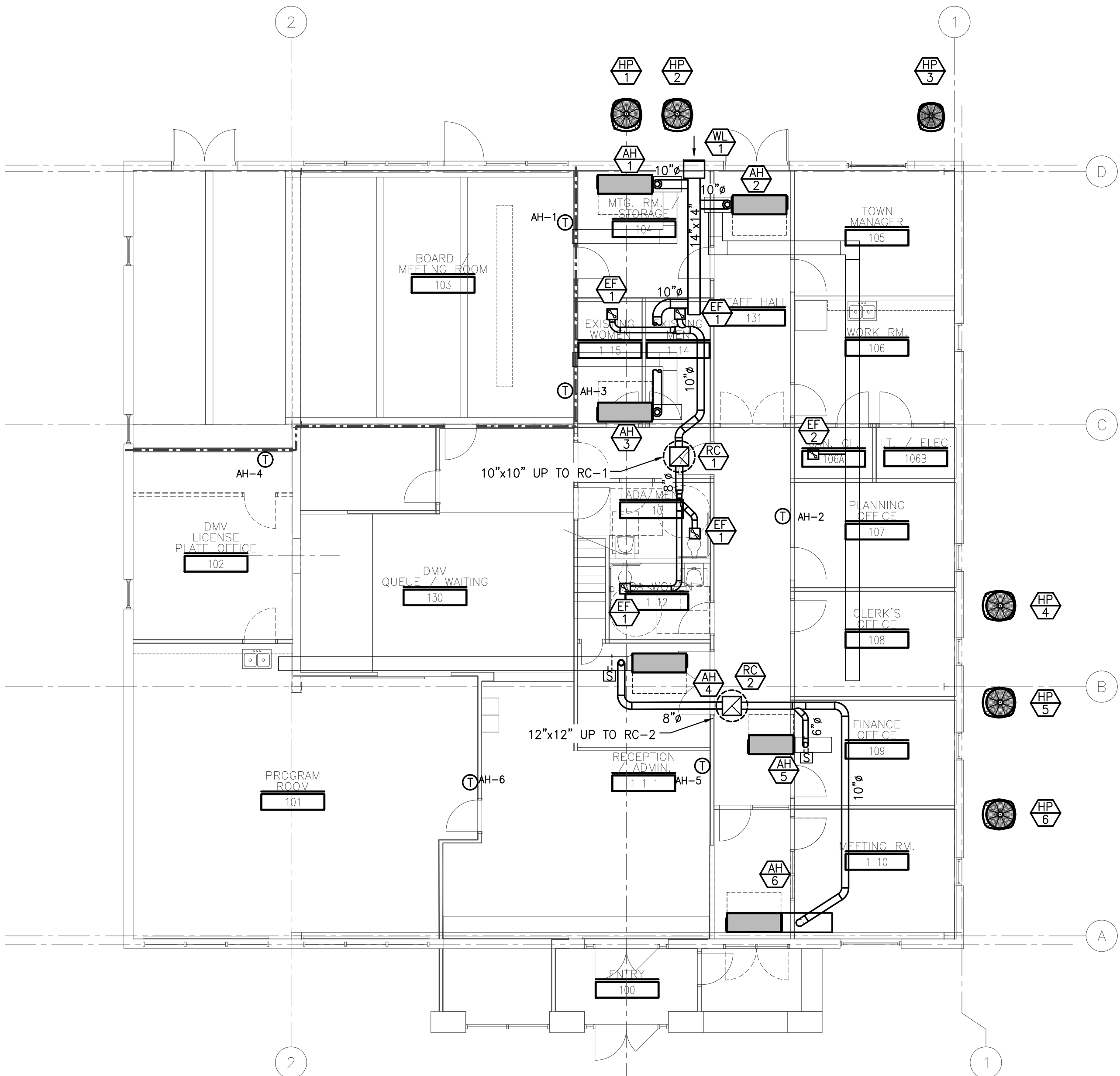
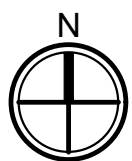
MECHANICAL PLAN

FIRE RATING LEGEND
1 - HR RATED WALL

M1.1

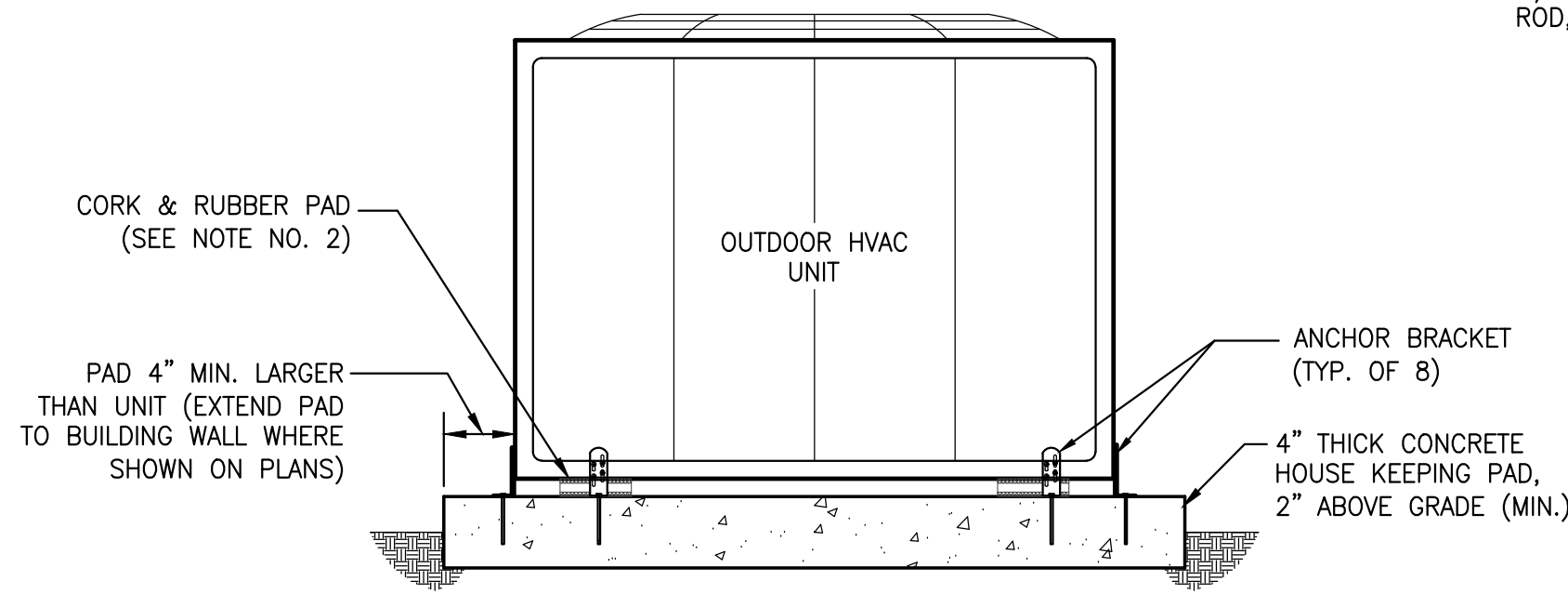


1 MECHANICAL DUCT & EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"



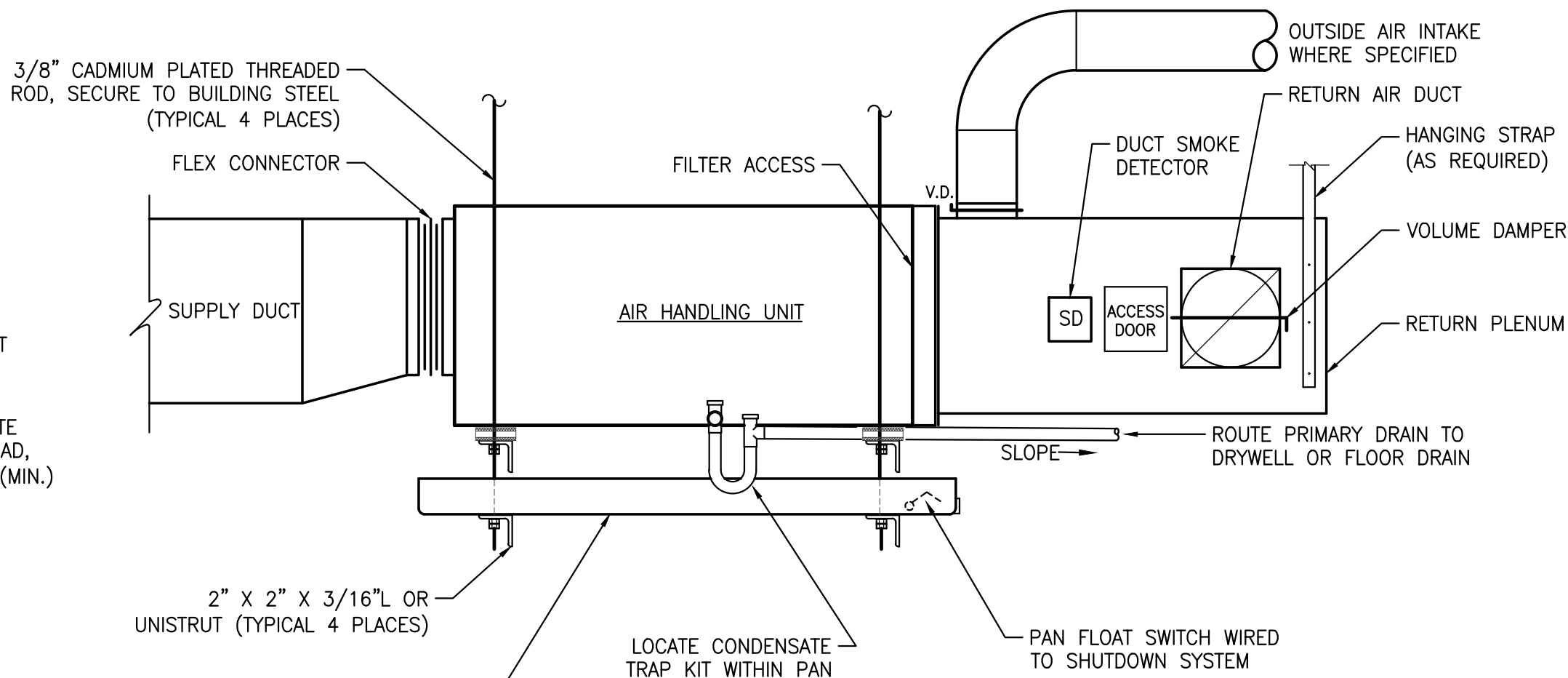
1 MECHANICAL OUTSIDE/EXHAUST AIR AND PIPING PLAN
SCALE: 1/8" = 1'-0"





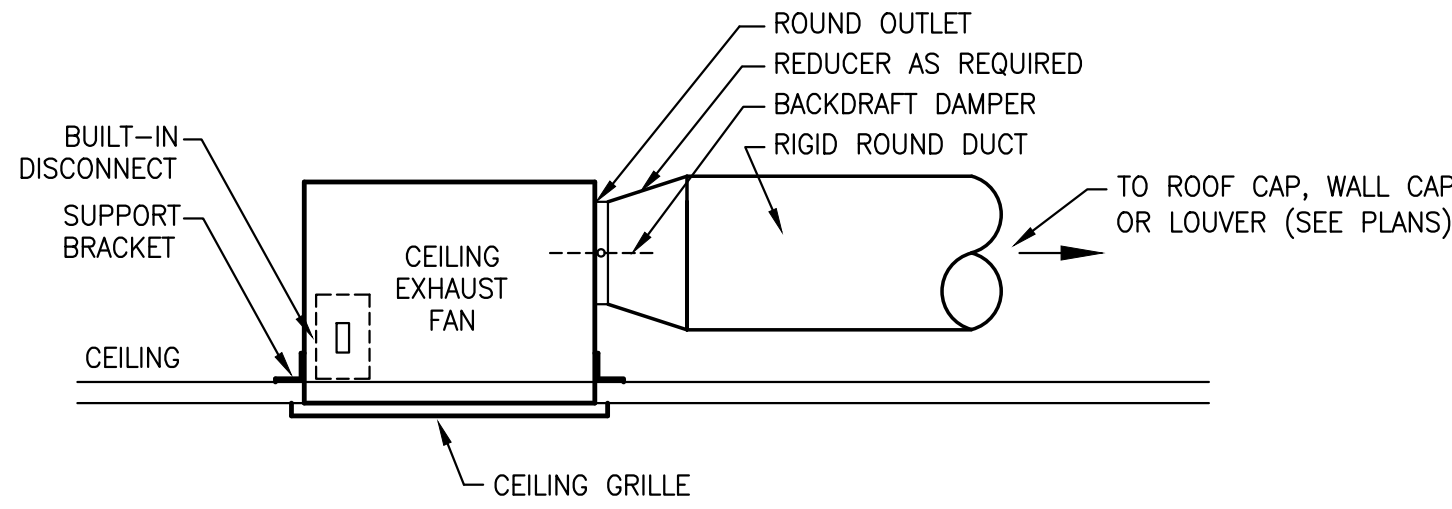
- NOTES:**
1. MAINTAIN EQUIPMENT MFG'S. RECOMMENDED CLEARANCES AND A MINIMUM OF 6" BEYOND SPLASH LINE OF ROOF OVERHANG.
 2. CORK & RUBBER PADS ARE NOT REQUIRED WHEN UNITS HAVE INTEGRAL PLASTIC BASES.
 3. PROVIDE ANCHOR KIT WITH 14 GAUGE/G-90 ASTM GALVANIZED STEEL SLOTTED "L" BRACKET. ANCHOR BRACKET TO CONCRETE WITH 1/4" DIAMETER ITW BUILDDEX (OR EQUAL) CARBON STEEL TAPCON EMBEDDED 1 3/4" MINIMUM INTO CONCRETE WITH 2 1/2" MINIMUM EDGE DISTANCE. PROVIDE FOUR SHEET METAL SCREWS FOR UNIT TO BRACKET CONNECTION. SCREWS SHALL BE #10 (16 MIN THREADS PER INCH) ASTM F593 410 STAINLESS STEEL, OR EQUIVALENT. UTILIZE TWO CLIPS ON EACH SIDE OF THE UNIT, 3" MAXIMUM FROM THE CORNERS.

1 OUTDOOR HVAC UNIT DETAIL
SCALE: N.T.S.



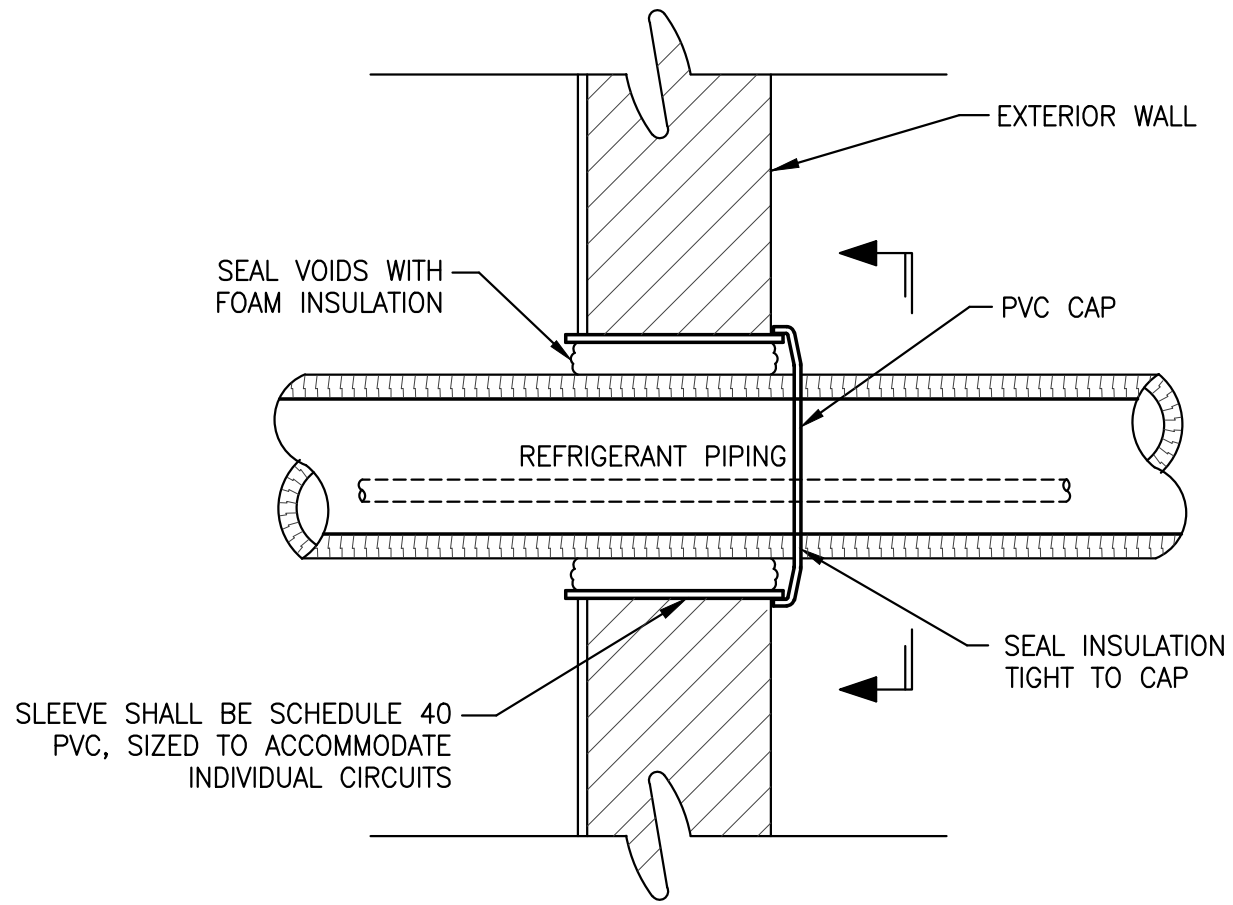
- NOTES:**
1. DRAIN PIPING SHALL BE 3/4" SCHEDULE 40 PVC UNLESS NOTED OTHERWISE ON PLANS.
 2. CONDENSATE TRAP KIT SHALL BE EQUAL TO EZ-TRAP EZT-113B AS MANUFACTURED BY RECTORSEAL.

2 ABOVE CEILING AIR HANDLING UNIT DETAIL
SCALE: N.T.S.



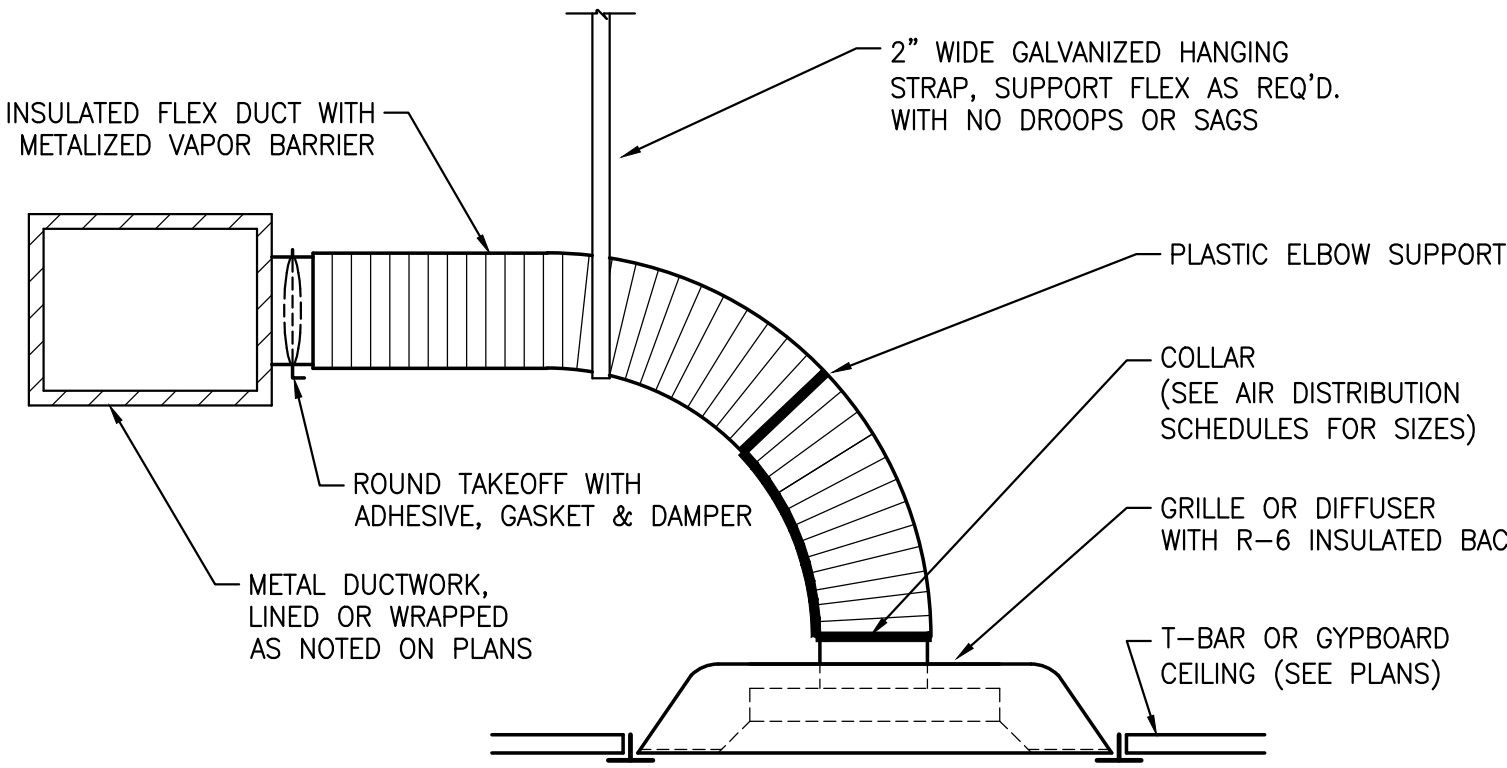
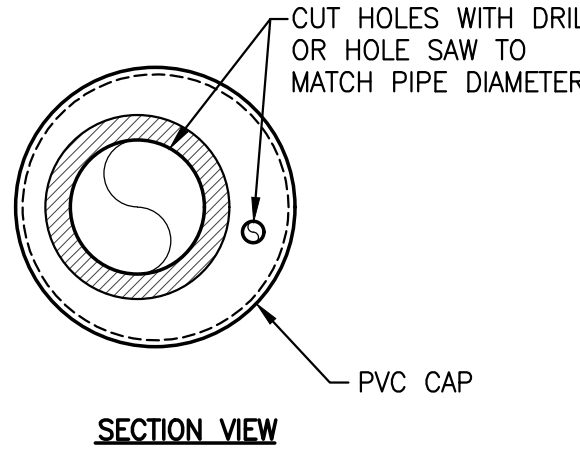
NOTE: E.C. SHALL PROVIDE GFCI BRANCH PROTECTED CIRCUIT WHEN LOCATED ABOVE TUB/SHOWER.

3 CEILING MOUNTED EXHAUST FAN DETAIL
SCALE: N.T.S.



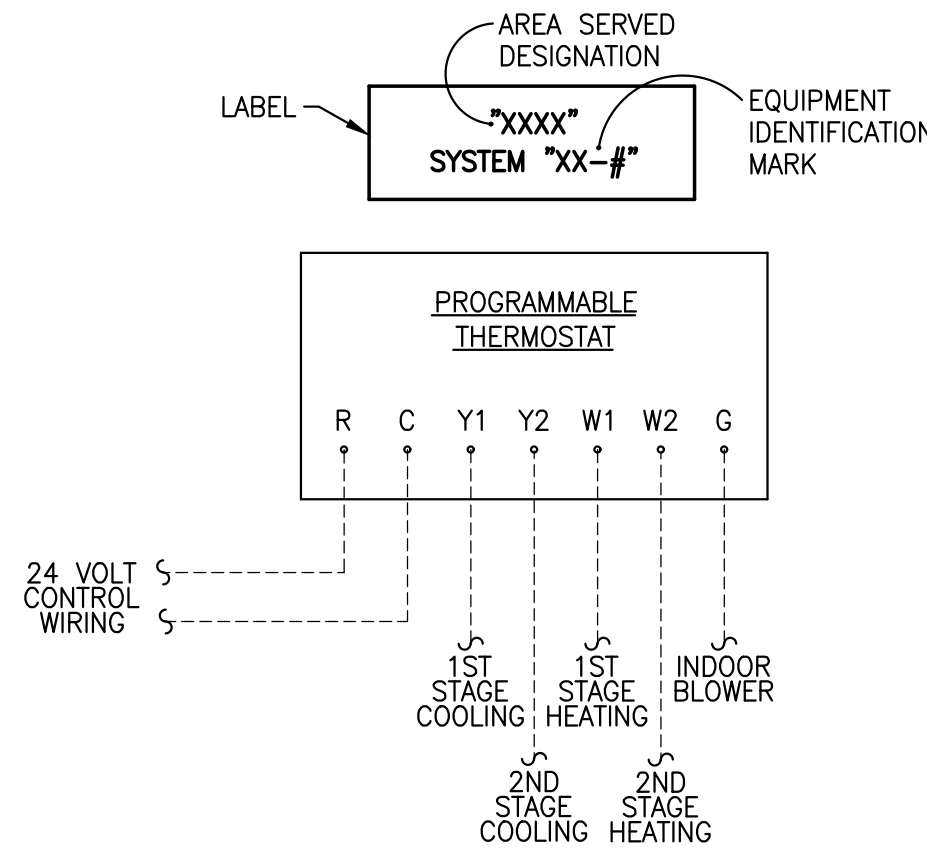
NOTE: SEAL ALL OPENINGS WITH CLEAR SILICON CAULKING WITH UV PROTECTION.

4 REFRIGERANT PIPE PENETRATION (EXTERIOR WALL) DETAIL
SCALE: N.T.S.



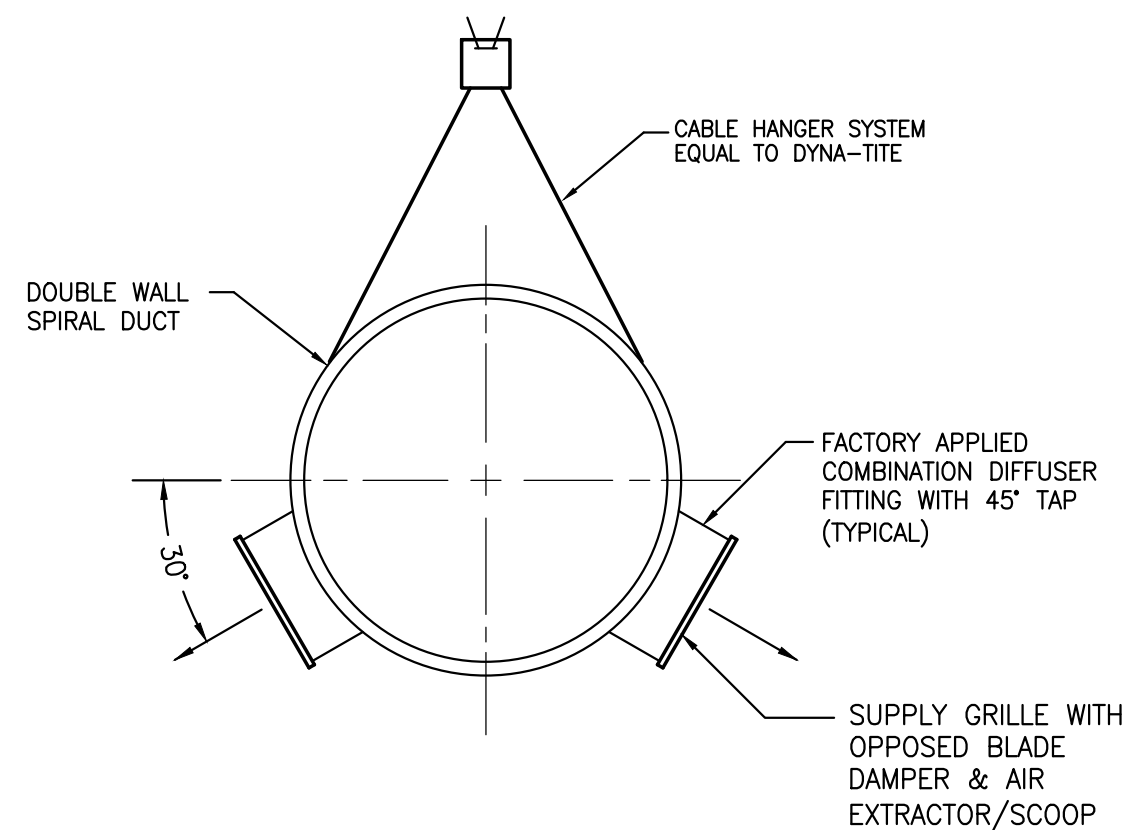
- NOTES:**
1. SECURE ENDS OF FLEX WITH NYLON BANDS AND 3" WIDE METALIZED DUCT TAPE.
 2. INSULATE & SEAL ALL GRILLE & DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATE.
 3. PROVIDE ELBOW SUPPORT EQUAL TO FLEXRIGHT.

5 AIR DISTRIBUTION DETAIL
SCALE: N.T.S.

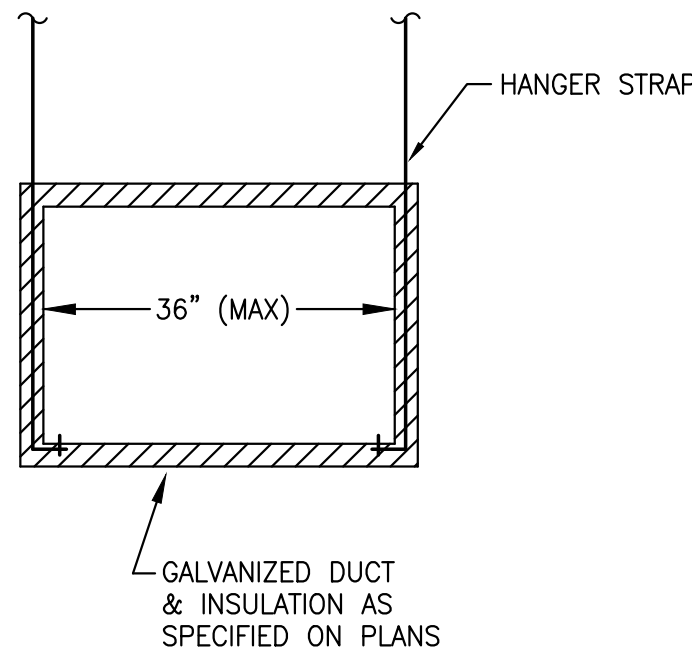


NOTE: LABEL T-STAT WITH PHENOLIC ENGRAVING STOCK WITH WHITE SURFACE AND BLACK 1/4" HIGH LETTERING.

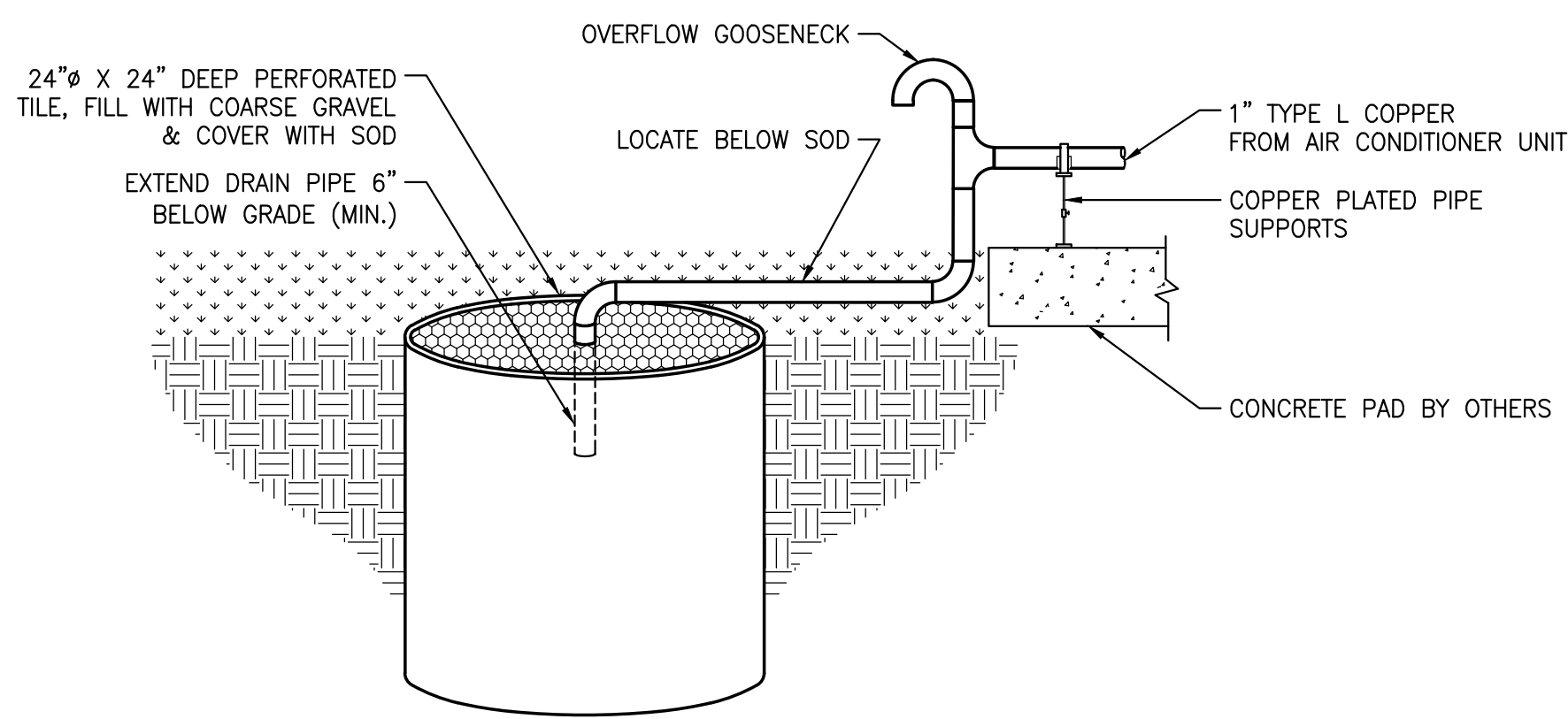
6 THERMOSTAT DETAIL
SCALE: N.T.S.



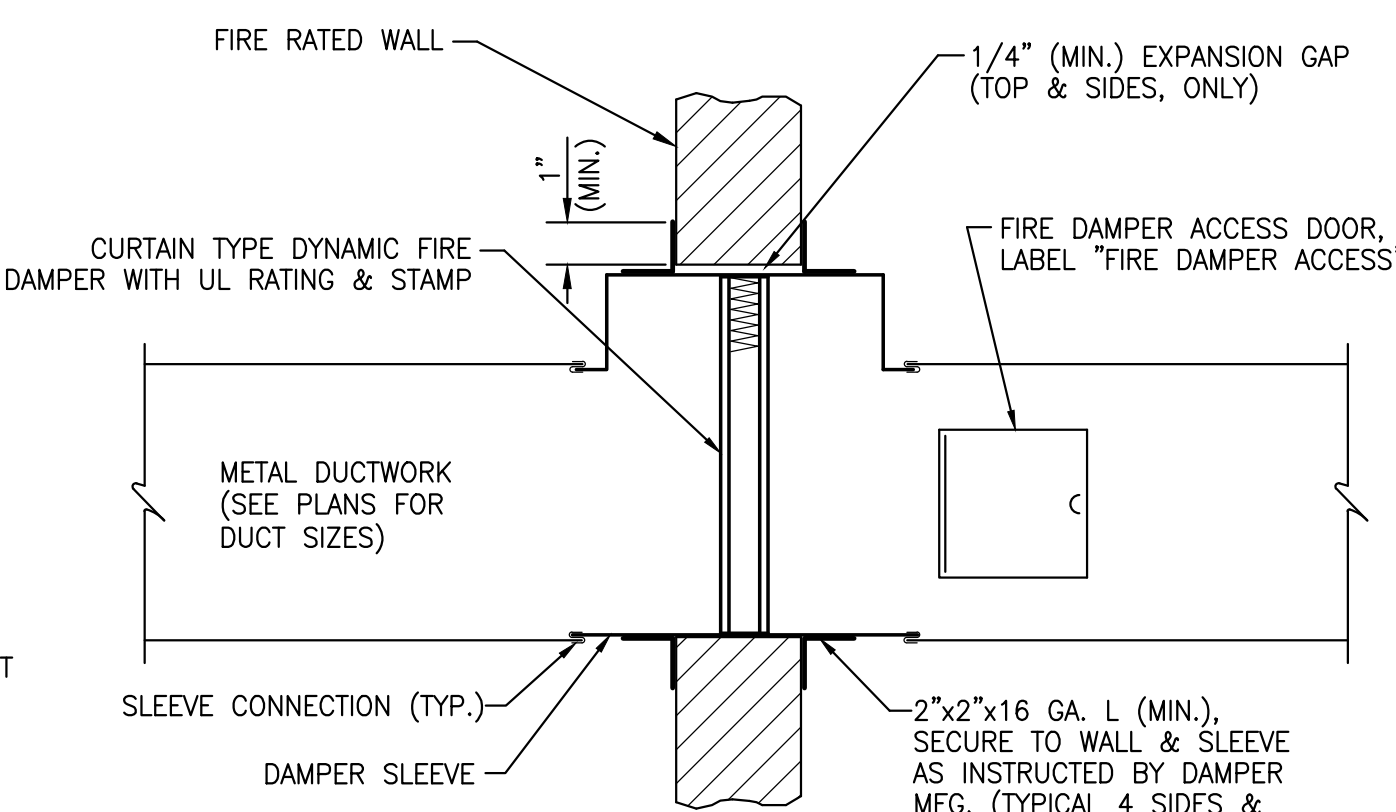
7 GRILLE ARRANGEMENT IN SPIRAL DUCT DETAIL
SCALE: N.T.S.



8 TRAPEZE HANGER DETAIL
SCALE: N.T.S.

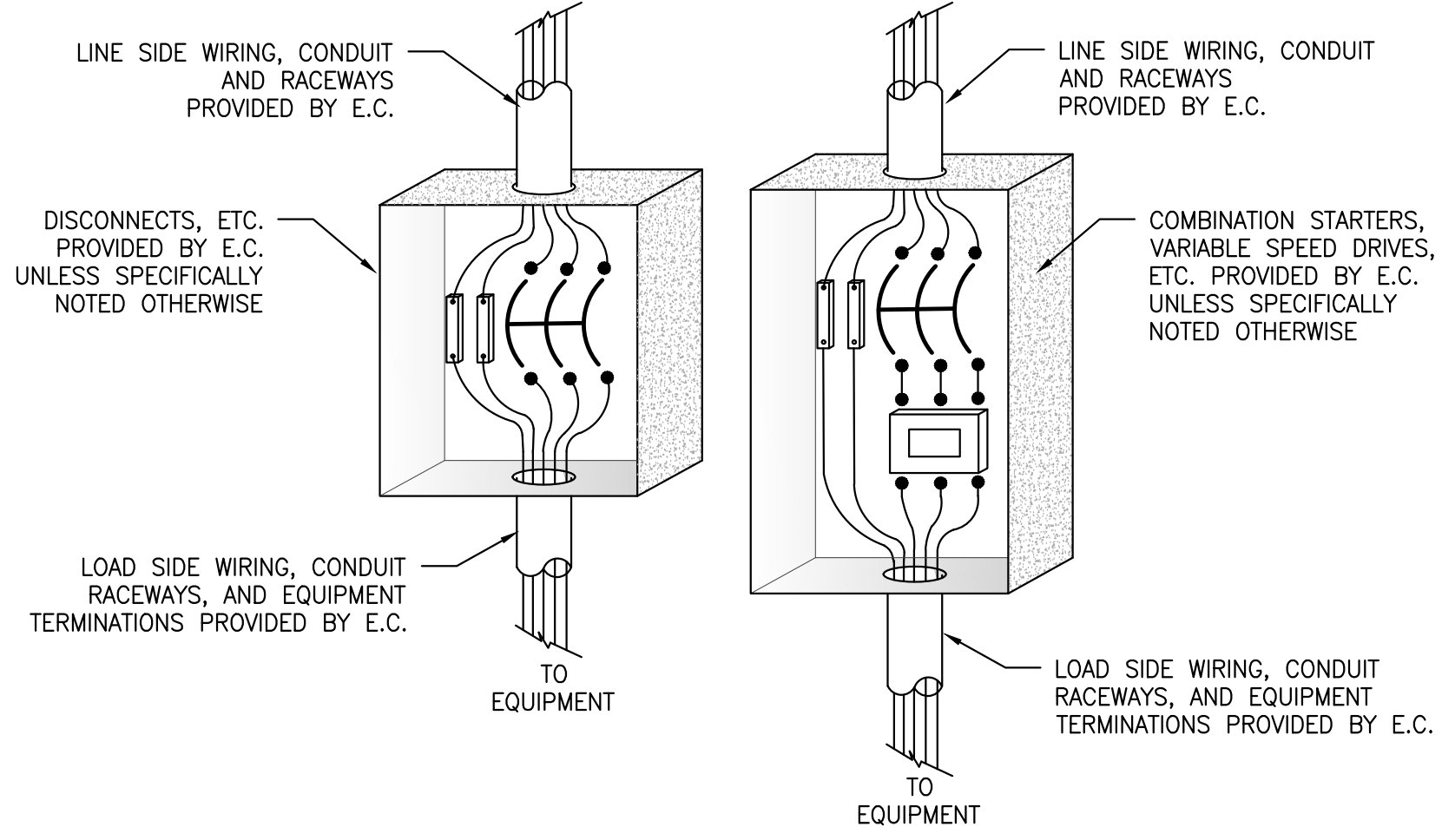


9 DRYWELL (FRENCH DRAIN) DETAIL
SCALE: N.T.S.



- NOTES:**
1. THIS DETAIL IS GENERIC FOR GENERAL GUIDANCE ONLY.
 2. INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRESTOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 3. APPLY SEALANT EQUAL TO DOW CORNING 999 AROUND RETAINING ANGLES & SLEEVE CONNECTIONS.
 4. PROVIDE 2" THICK WRAP INSULATION AROUND EXPOSED DAMPER SLEEVE TO PREVENT CONDENSATION.
 5. DAMPER ACCESS DOOR SIZES SHALL BE 8"x12" ON DUCTS SMALLER THAN 14" AND 12"x12" ON DUCTS 14" & LARGER.

10 VERTICAL FIRE DAMPER - STYLE B DETAIL
SCALE: N.T.S.



11 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.



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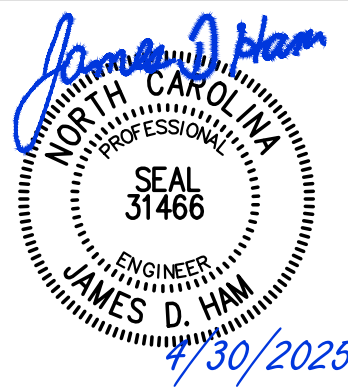
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PROJECT NO. 224011 PROJECT MGR. DRAWN BY D. HAM D. HILL



REVISIONS:
|DESC:| DATE

DRAWN BY: DJH/JAL
PROJECT #: 23018
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

MECHANICAL SCHEDULES

M3.1

MECHANICAL DUCT INSULATION TABLE						
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	R-VALUE	THICKNESS	REMARKS
RIGID METAL SUPPLY DUCT	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS BLANKET	FSK	R-8.0	3"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	EXPOSED	FIBERGLASS DUCT LINER	-	R-4.0	1"	SUPPLY DUCTS INDICATED AS LINED
	MECHANICAL ROOM	RIGID FIBERGLASS BOARD	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
RIGID METAL RETURN DUCT	CONDITIONED SPACE	(NONE REQUIRED)				
	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS BLANKET	FSK	R-8.0	3"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
RIGID METAL OUTSIDE AIR DUCT	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
EXHAUST DUCT	ALL	(NONE REQUIRED)				
FLEXIBLE SUPPLY DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-8.0	2 1/2"	
FLEXIBLE RETURN DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
	VENTILATED ATTIC OR CRAWLSPACE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-8.0	2 1/2"	
ACOUSTICAL LINER (NOISE ATTENUATION)	AT EACH UNIT	FIBERGLASS DUCT LINER			1/2"	TERMINATE 10' FROM UNIT OR AFTER 1st ELBOW

MECHANICAL PIPING INSULATION TABLE						
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS
REFRIGERATION SUCTION PIPING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION
	UNCONDITIONED SPACE	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION
	EXTERIOR	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	PROVIDE WITH WHITE UV PROTECTIVE COATING
A/C CONDENSATE PIPING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	-
	VENTILATED ATTIC OR CRAWLSPACE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	(NONE REQUIRED FOR EXTERIOR)

NOTES: ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

MECHANICAL ENERGY SUMMARY MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
METHOD OF COMPLIANCE:	
NC ENERGY CODE (2018) PRESCRIPTIVE <input checked="" type="checkbox"/> PERFORMANCE <input type="checkbox"/>	
ASHRAE 90.1 (2016) PRESCRIPTIVE <input type="checkbox"/> PERFORMANCE <input type="checkbox"/>	
THERMAL ZONE	3A
EXTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	20°F
SUMMER DRY BULB	95°F
INTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	72°F
SUMMER DRY BULB	74°F
RELATIVE HUMIDITY	50%
BUILDING HEATING LOAD	137 MBH
BUILDING COOLING LOAD	21 TONS
MECHANICAL CONDITIONING SYSTEM	
UNITARY	
DESCRIPTION OF UNIT	SPLIT SYSTEM HEAT PUMP
HEATING EFFICIENCY	8.5 HSPF
COOLING EFFICIENCY	14.3 SEER2
HEAT OUTPUT OF UNIT	324 MBH
COOLING OUTPUT OF UNIT	21.5 TONS
LIST EQUIPMENT EFFICIENCIES SEE MECHANICAL SCHEDULES	

EQUAL MANUFACTURERS		
DESCRIPTION	SPECIFIED MANUFACTURER	ACCEPTABLE SUBSTITUTIONS
FANS	GREENHECK	LOREN COOK, CAPTIVE-AIRE, AEROVENT
ROOF CAPS & VENTILATORS	GREENHECK	LOREN COOK AND TWIN CITY FAN
UNIT HEATERS	MARKEL	MODINE, TRANE, AND REZNOR
LOUVERS	GREENHECK	RUSKIN AND NAILOR
INLINE INDUCED FLOW	GREENHECK	YORK AND LOREN COOK
LARGE DIAMETER CEILING FAN	GREENHECK	HUNTER AND BIG ASS FANS

NOTE: SPECIFIED PRODUCTS INDICATE QUALITY AND OPTIONS REQUIRED FOR THIS PROJECT. EQUAL PRODUCTS/MANUFACTURERS ARE ACCEPTABLE.

HEAT PUMP (INDOOR UNIT) SCHEDULE														
MARK	SUPPLY FAN				NOMINAL COOLING CAPACITY				AUX. HEAT	VOLT/PH	FLA	MCA	MOCP	REF. MANF.
	SA	CFM	OA	EXT	SP	MTR	HP	EAT(DB/WB)	TOT CAP	SEN CAP				
AH-1	1400	224	0.5"	3/4	77°/66°	48 MBH	36.7 MBH	9.6 KW	240/1Ø	46	59	60A	TRANE	STEM4D06
AH-2	1750	213	0.5"	3/4	76°/64°	53 MBH	45 MBH	9.6 KW	240/1Ø	46	59	60A	TRANE	STEM4D06
AH-3	1400	244	0.5"	3/4	77°/66°	48 MBH	36.7 MBH	9.6 KW	240/1Ø	46	59	60A	TRANE	STEM4D06
AH-4	875	120	0.5"	1/3	75°/70°	31 MBH	24.5 MBH	7.7 KW	240/1Ø	38	45	45A	TRANE	STEM6D04
AH-5	700	65	0.5"	1/3	75°/63°	23.6 MBH	18.1 MBH	4.8 KW	240/1Ø	23	28	30A	TRANE	STEM4B02
AH-6	1400	250	0.5"	3/4	76°/65°	48 MBH	36.7 MBH	9.6 KW	240/1Ø	46	59	60A	TRANE	STEM4D06

- NOTES:
- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
 - SINGLE POINT WIRING CONNECTION
 - TXV MATCHING CONDENSER CAPACITY
 - 7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKOUT FUNCTION
 - ECM FAN MOTORS
 - MERV 8 FILTERS

HEAT PUMP (OUTDOOR UNIT) SCHEDULE												
MARK	EAT(DB)	NOM CAP	VOLT/PH	FLA	MCA	MOCP	MIN. SEER2	HSPF	REF. MANF.	REF. MODEL	WEIGHT	
HP-1	95°	4.0 TONS	240/1Ø	21	25	40A	14.3 SEER2	8.5	TRANE	5TWR4048	300 LBS.	
HP-2	95°	5.0 TONS	240/1Ø	25	33	50A	14.3 SEER2	8.5	TRANE	5TWR4060	240 LBS.	
HP-3	95°	4.0 TONS	240/1Ø	21	25	40A	14.3 SEER2	8.5	TRANE	5TWR4048	300 LBS.	
HP-4	95°	2.5 TONS	240/1Ø	14	16	25A	14.3 SEER2	8.5	TRANE	5TWR5030	240 LBS.	
HP-5	95°	2.0 TONS	240/1Ø	10	13	20A	14.3 SEER2	8.5	TRANE	5TWR4024	210 LBS.	
HP-6	95°	4.0 TONS	240/1Ø	21	25	40A	14.3 SEER2	8.5	TRANE	5TWR4048	300 LBS.	

- NOTES:
- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
 - 5 YEAR COMPRESSOR WARRANTY
 - COMPRESSOR ANTI SHORT CYCLE DELAY
 - CRANKCASE HEATERS
 - HIGH AND LOW PRESSURE SWITCHES
 - OUTDOOR THERMOSTAT
 - LOW AMBIENT CONTROL TO 55°
 - EXTREME CONDITION MOUNT KIT
 - M.C. SHALL COORDINATE PRODUCT SPECIFIC ELECTRICAL REQUIREMENTS WITH E.C..

EXHAUST FAN SCHEDULE											
MARK	TYPE	CFM	ESP	WATTS	VOLT/PH	REF. MANF.	REF. MODEL	*SONES	WEIGHT	NOTES	CONTROL
EF-1	CEILING	70	0.25"	17	120/1Ø	GREENHECK	SP-A90	0.4	12 LBS	1,2	-
EF-2	CEILING	109	0.25"	23	120/1Ø	GREENHECK	SP-A125	0.6	17 LBS	1,2	-

- NOTES:
- PROVIDE WITH ROOF CAP, WALL CAP OR LOUVER AS SHOWN ON PLANS.
 - PROVIDE WITH BACKDRAFT DAMPER.
 - PROVIDE WITH ELEC. COMMUTATED MOTOR WITH POTENTIOMETER INTERNALLY MOUNTED.
 - PROVIDE WITH ELEC. COMMUTATED MOTOR AND REMOTE POTENTIOMETER.
- * SONE LEVELS SHALL NOT EXCEED LEVELS LISTED IN SCHEDULE.
ESP - STATIC PRESSURE EXTERNAL TO THE FAN ASSEMBLY
TSP - TOTAL STATIC PRESSURE INCLUDING FAN ACCESSORIES
** SPARK RESISTANT

CONTROL TYPE DESCRIPTION:

- INTERLOCK WITH ROOM LIGHTING CONTROL BY EC.
- SEPARATE WALL MOUNTED FAN SWITCH BY EC.
- WALL MOUNTED T-STAT FURNISHED WITH FAN, INSTALLED BY EC.
- WALL MOUNTED SPEED CONTROL FURNISHED WITH FAN, INSTALLED BY EC.

LOUVER SCHEDULE								
MARK	SERVICE	SIZE	CFM	SP	FREE AREA	MATERIAL	REF. MANF.	REF. MODEL
WL-1	INTAKE	24"Wx24"H	-	0.05"	3.27 SQ FT	ALUMINUM	GREENHECK	EHH-4

- NOTES:
- PROVIDE WITH BIRD SCREEN, EXTENDED SILL & 2 COATS OF KYNAR FINISH (AAMA 2605).
 - SUBMIT LOUVER TYPE & COLOR PALLET TO ARCHITECT FOR COLOR SELECTION.
 - PROVIDE WITH BACKDRAFT DAMPER AND 120V OPERATOR CONTROLLED BY GAS DETECTION PANEL.

AIR DISTRIBUTION SCHEDULE												
MARK	CFM RANGE	TYPE	MNT.	SIZE	NECK	THROW	MAX NC	PATTERN	DIRECTION	MAT'L	FINISH	REMARKS
A	0-100	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	6"x6"x6"Ø	15'	15	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2x2 PANEL
B	100-200	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	9"x9"x8"Ø	20'	15	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2x2 PANEL
C	200-400	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	12"x12"x10"Ø	24'	20	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2x2 PANEL
C1	200-400	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	12"x12"x10"Ø	24'	20	3-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2x2 PANEL
D	400-600	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	12"x12"x12"Ø	27'	30	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2x2 PANEL
SAA	0-40	LOUVERED FACE SUPPLY DIFFUSER	SURF	12"x12"	6"x6"x4"Ø	7'	15	4-WAY	HORZ	ALUM.	WHITE	SURFACE MOUNTED BEVELED BORDER
SA	0-100	LOUVERED FACE SUPPLY DIFFUSER	SURF	12"x12"	6"x6"x6"Ø	9'	15	4-WAY	HORZ	ALUM.	WHITE	SURFACE MOUNTED BEVELED BORDER
SB	100-200	LOUVERED FACE SUPPLY DIFFUSER	SURF	12"x12"	9"x9"x8"Ø	13'	15	4-WAY	HORZ	ALUM.	WHITE	SURFACE MOUNTED BEVELED BORDER
SC	200-400	LOUVERED FACE SUPPLY DIFFUSER	SURF	15"x15"	12"x12"x10"Ø	18'	20	4-WAY	HORZ	ALUM.	WHITE	SURFACE MOUNTED BEVELED BORDER
R	0-600	RETURN 1/2" CUBE FACE	LAY-IN	24"x24"	6"Ø TO 12"Ø	-	-	-	-	ALUM.	MILL	
SWR1	0-700	LOUVERED SIDEWALL RETURN	SURF	18"x14"	-	-	-	-	-	STEEL	WHITE	3/4" HORIZONTAL FACE BARS, 45 DEG DEFLECTION
SWR2	0-1400	LOUVERED SIDEWALL RETURN	SURF	20"x24"	-	-	-	-	-	STEEL	WHITE	3/4" HORIZONTAL FACE BARS, 45 DEG DEFLECTION
VC	200-500	THERMAL DIFFUSER HEATING/COOLING	LAY-IN	24"x24"	12"Ø	12'	23	4-WAY	HORZ	ALUM.	WHITE	
SW1	0-350	SPIRAL DUCT SIDEWALL SUPPLY GRILLE	DUCT	12"x8"	12"x8"	13'	18	DBL DFL	HORZ	ALUM.	WHITE	1/2" SPACING, VERTICAL FACE BARS, DOUBLE DEF. OPPOSED BLADE DAMPER
SW2	0-300	SIDEWALL SUPPLY GRILLE	WALL	14"x6"	14"x6"	13'	20	DBL DFL	HORZ	ALUM.	WHITE	1/2" SPACING, VERTICAL FACE BARS, DOUBLE DEFLECTION

- NOTES:
- VERIFY AIR DISTRIBUTION TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
 - AIR THROWS BASED ON 50 FPM.



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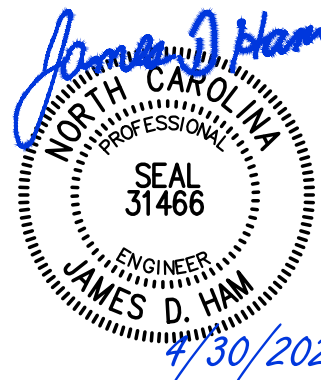
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PROJECT NO. 224011 PROJECT MGR. D. HAM D. HILL



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CONSTRUCTION
DOCUMENTS

SHEET NAME & NUMBER

MECHANICAL NOTES

M4.1

MECHANICAL NOTES:

- MECHANICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE OPERATING MECHANICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A COMPLETE AND OPERATING SYSTEM.
- CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF HVAC INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. THE EXACT LOCATION AND DETAILS OF EQUIPMENT MAY REQUIRE DEVIATIONS FROM PLANS AS THEY ARE DIAGRAMMATIC.
- ALL WORK SHALL COMPLY WITH 2018 NC MECHANICAL CODE, LOCAL ORDINANCES, AS WELL AS FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- PROVIDE PRODUCT SUBMITTALS FOR ALL EQUIPMENT INCLUDING EFFICIENCY, PERFORMANCE DATA, DIMENSIONAL DATA, FINISHES, ELECTRICAL REQUIREMENTS ETC. EQUIPMENT SHALL MEET THE PERFORMANCE, QUALITY AND INTENT OF SCHEDULED EQUIPMENT AND INCLUDE ALL OPTIONS AS LISTED IN SCHEDULES.
- BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, MECHANICAL CONTRACTOR SHALL REVIEW, STAMP, AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. BY APPROVAL AND SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ENGINEER, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED AND CHECKED THE INFORMATION WITHIN THE SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE ON SUBMITTAL OF ANY DEVIATIONS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS REQUIREMENTS BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS OR OTHER SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND SUCH DEVIATION HAS BEEN APPROVED IN WRITING. ALL OPTIONS AND ACCESSORIES SHALL BE CLEARLY MARKED ON THE CUTSHEETS.
- COORDINATE ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH THE ELECTRICAL SUBCONTRACTOR. WHERE ELECTRICAL REQUIREMENTS OF EQUIPMENT PROVIDED DIFFERS FROM THE SCHEDULED EQUIPMENT THAT REQUIRE COST RELATED CHANGES IN THE ELECTRICAL, CONTACT THE ENGINEER.
- THE CITED EXAMPLES OF PRODUCTS ARE USED ONLY TO DENOTE THE QUALITY STANDARD OF PRODUCT DESIRED AND THEY DO NOT RESTRICT BIDDERS TO A SPECIFIC BRAND, MAKE, MANUFACTURER OR SPECIFIC NAME; THAT THEY ARE USED ONLY TO SET FORTH AND CONVEY TO BIDDERS THE GENERAL STYLE, TYPE, CHARACTER AND QUALITY OF PRODUCT DESIRED; AND THAT EQUIVALENT PRODUCTS WILL BE ACCEPTABLE.
- PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- POWER WIRING, DISCONNECTS & STARTERS NOT FURNISHED WITH HVAC EQUIPMENT AND FINAL CONNECTIONS SHALL BE BY THE E.C.
- CONTROL WIRING, RELAYS AND INTERLOCKING DEVICES SHALL BE PROVIDED BY THE M.C.
- UL LISTED DUCT SMOKE DETECTORS & RAIL SWITCHES SHALL BE FURNISHED & WIRED BY THE FIRE ALARM CONTRACTOR AND DUCT SMOKE DETECTORS INSTALLED BY THE M.C.. RAIL SWITCHES SHALL BE REQUIRED WHERE DETECTORS ARE NOT READILY ACCESSIBLE. FIRE ALARM AHU SHUT DOWN CIRCUITS SHALL BE WIRED FROM THE FACP TO A TERMINATION POINT, ADJACENT TO THE FACP BY THE FIRE ALARM CONTRACTOR. AHU CONTROL WIRING FROM THE TERMINATION POINT TO THE EQUIPMENT SHALL BE BY THE M.C.. THE FIRE ALARM CONTRACTOR SHALL TEST ALL SMOKE DETECTORS.
- UL LISTED DUCT SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED & TESTED BY THE M.C.. THE M.C. SHALL PROVIDE REMOTE ALARM/TEST STATION FOR EACH DUCT SMOKE DETECTOR.
- TEMPERATURE CONTROLS FOR EACH HEATING-COOLING SYSTEM SHALL CONSIST OF AN ELECTRONIC PROGRAMMABLE HEATING-COOLING THERMOSTAT WITH HEAT-OFF-COOL-AUTO SYSTEM SWITCH & AUTO-ON FAN SWITCH. THERMOSTAT SHALL HAVE WIFI ACCESS. MOUNT THERMOSTATS 48-INCHES A.F.F.
- INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS. PROVIDE CLEARANCE AS RECOMMENDED BY THE MANUFACTURER
- PROVIDE FLEX CONNECTORS AT ALL DUCT TO EQUIPMENT CONNECTIONS NOT HAVING INTERNALLY ISOLATED FANS.
- PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL GROUND & FLOOR MOUNTED EQUIPMENT. UNLESS NOTED OTHERWISE ALL PADS SHALL BE 4" THICK & 4" LARGER THAN EQUIPMENT ON ALL SIDES. PADS SHALL BE 3000 PSI CONCRETE WITH #4 REBAR 6" ON CENTER BOTH DIRECTIONS.
- EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEATING AND COOLING AND SHALL NOT BE RUN EXCEPT FOR TESTING AND BALANCING UNTIL THE BUILDING IS DRIED IN, CLEAN AND ALL FINISHING WITHIN THE SPACE IS COMPLETE. OPERATING THE SYSTEM PRIOR TO HAVING A CLEAN BUILDING WILL REQUIRE THE SYSTEMS TO BE CLEANED TO LIKE NEW CONDITION.
- CONTRACTOR SHALL BALANCE AIR SYSTEM OUTLETS TO QUANTITIES INDICATED WITHIN ±10% AS NOTED ON PLANS IN ACCORDANCE WITH PROCEDURES CONTAINED IN AABC OR SMACNA, AND PROVIDE CERTIFIED TYPE WRITTEN TAB REPORT WITH O&M MANUALS. SUPPLY, RETURN, AND EXHAUST FANS SHALL BE PLUS 10% OR MINUS 0%, AIR FLOW AND STATIC PRESSURE SHALL BE MEASURED AND RECORDED FOR ALL OUTLETS. TAB FIELD SUPERVISOR AND TECHNICIAN SHALL BE CERTIFIED BY AABC. REPORT ANY DEFICIENCIES DISCOVERED BEFORE OR DURING TAB PROCEDURES. VERIFY LEAKAGE AND PRESSURE TEST HAVE BEEN SATISFACTORILY COMPLETED. PROVIDE TYPE WRITTEN REPORT WITH O&M MANUALS.
- ALL EQUIPMENT & SYSTEMS SHALL BE WASHED, MECHANICAL AREAS CLEANED AND PAINTED SURFACES TOUCHED UP TO MATCH FACTORY APPLIED FINISHES. AIR HANDLERS SHALL BE VACUUMED AND WIPED CLEAN ON THE INSIDE PRIOR TO TURNING THE PROJECT OVER TO THE OWNER. ENTIRE SYSTEMS INCLUDING DUCTWORK THAT HAVE NOT BEEN ADEQUATELY PROTECTED DURING INSTALLATION WILL REQUIRE ADDITIONAL CLEANING AT THE END OF THE PROJECT.
- CONTRACTOR SHALL COVER EACH RETURN OPENING LOCATION & EACH AIR HANDLER FILTER RACK WITH MERV 8 PLEATED FILTER MEDIA BEFORE STARTUP OF MECHANICAL SYSTEMS. CONTRACTOR SHALL ALSO INSTALL A NEW SET OF MERV 8 PLEATED FILTERS AT EACH PERMANENT FILTER LOCATION BEFORE TURNING BUILDING OVER TO OWNER.
- CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL AS REQUIRED BY THE NC ENERGY CODE 503.2.9.2 INCLUDING EQUIPMENT BASIC DATA, CONTROL INFORMATION, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS.
- GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY. EXTENDED GUARANTEES ON EQUIPMENT SHALL BE AS PUBLISHED ON MANUFACTURER'S EXTENDED WARRANTIES.

DUCT SYSTEMS:

- ALL DUCT INSTALLATION SHALL BE COORDINATED SUCH THAT DUCT DOES NOT INTERFERE WITH FUTURE REMOVAL OF CEILING TILES, WATER HEATERS, OR LIGHT FIXTURES. DUCT SHALL BE A MINIMUM OF 6" FROM LIGHT FIXTURES AND CEILING TILES.
- FABRICATE AND INSTALL DUCT PER SMACNA STANDARDS FOR 3-INCH WC UPSTREAM OF AIR TERMINALS AND 2-INCH WC FOR ALL OTHER DUCTWORK. FOR INTERIOR LOCATIONS, USE GALVANIZED METAL MINIMUM G-60 (26 GAUGE MINIMUM). SEAL ALL LONGITUDINAL AND TRAVERSE JOINTS AS REQUIRED BY CURRENT SMACNA AND ENERGY CODE STANDARDS FOR MINIMUM OF WC INDICATED ABOVE. SPACING SHALL BE PROVIDED BETWEEN FITTINGS TO REDUCE SYSTEM AFFECT.
- WHERE RECTANGULAR DUCT IS INDICATED, RADIUS ELBOWS & TEES SHALL HAVE CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. SQUARE ELBOWS SHALL INCLUDE TURNING VANES. NO VANES SHALL BE REMOVED FROM THE VANE RUNNER. VANES WITH TRAILING EDGES SHALL NOT BE USED. RECTANGULAR RADIUS ELBOWS WITH RADIUS/WIDTH GREATER THAN 1 AND RADIUS THROAT ARE ALLOWED. ALL DUCT JOINTS, SEAMS & BRANCH TAKEOFFS SHALL BE SEALED AIR-TIGHT WITH DUCT SEALANT EQUAL TO HARDCAST IRON-GRIP. ROLLED FORM FLANGE TYPE JOINTS WITH GASKETS BOLTED CORNERS AND CLIPS MAY BE USED PROVIDING AN AIR TIGHT SEAL AND REINFORCING.
- WHERE ROUND OR FLAT OVAL DUCT IS INDICATED, DUCT SHALL BE SPIRAL LOCKSEAM WITH EPDM GASKETED FITTINGS. LARGE FLAT OVAL SIZES MAY USE BOLTED AND GASKETED ROLLED FLANGE TYPE JOINTS.
- WHERE DOUBLE WALL SPIRAL DUCT IS INDICATED THE DUCT SHALL BE DOUBLE WALL WITH FACTORY INSTALLED GASKET FITTINGS. OUTER SHELL SHALL BE PAINT GRIP GALVANIZED (ASTM A653) STEEL. INNER SHELL SHALL BE PERFORATED GALVANIZED STEEL INSULATION SHALL BE 1-INCH THICK 1 LB. DENSITY WITH MIN. R-VALUE OF 3.8
- PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS & CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS, ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY SHIFT.
- ROUND RUNOUTS ON RECTANGULAR DUCTS SHALL HAVE SIDE TAKEOFFS WITH GASKET & DAMPER, RECTANGULAR BRANCH DUCTS SHALL HAVE 45 DEGREE TAPS WITH AIR EXTRACTOR AND ALL TEES SHALL HAVE SPLITTER DAMPERS. PROVIDE ANY OTHER DEVICES REQUIRED TO BALANCE AIR SYSTEM.
- FLEX DUCT SHALL BE FACTORY INSULATED, HAVE ACOUSTICAL INNER CORE AND HAVE METALIZED VAPOR BARRIER. SEAL FLEX TO HARD CONNECTIONS WITH MASTIC. BOTH ENDS SHALL BE SECURED WITH NYLON BANDS AND METALIZED DUCT TAPE PER MFG'S RECOMMENDATIONS AND IN ACCORDANCE WITH U.L. 181B. BEND RADIUS SHALL NOT BE LESS THAN ONE DUCT DIAMETER. PROVIDE "FLEXFLOW ELBOW" SUPPORT BY THERMAFLEX, OR EQUAL, AT EACH DIFFUSER. MAX LENGTH OF FLEX SHALL BE 6 FEET. SUSPEND FLEXIBLE DUCTS WITH BANDS 1-1/2 INCHES WIDE OR WIDER AND SPACED A MAXIMUM OF 48 INCHES APART. MAXIMUM CENTERLINE SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2 INCH PER 12 INCHES. DO NOT BEND DUCTS ACROSS SHARP CORNERS. AVOID CONTACT WITH METAL FIXTURES, CEILING GRIDS, WATER LINES, PIPES, OR CONDUITS.
- RIGID ROUND AND RECTANGULAR DUCT SHALL BE EXTERNALLY INSULATED WITH 3/4 LB. DENSITY FIBERGLASS BLANKET WITH FSK VAPOR BARRIER. STAPLE AND SEAL ALL JOINTS WITH 3-INCH WIDE METALIZED DUCT TAPE EQUAL TO SHURFLEX SF-683.
- PROVIDE 1/2-INCH, 1.5 LB. DENSITY ACOUSTICAL LINER AT EACH A/C UNIT SUPPLY AND RETURN CONNECTION FOR SOUND ATTENUATION. TERMINATE LINER AT 10-FT. FROM UNIT, AT FIRST ELBOW OR AS NOTED ON PLANS. LINER SHALL BE INSTALLED WITH PINS & ADHESIVE AS RECOMMENDED BY MFG. & SMACNA. DUCT SIZES ON PLANS ARE METAL DIMENSIONS AND INCLUDE ALLOWANCES FOR LINER. DUCT SHALL BE WRAPPED WITH INSULATION IN ADDITION TO ACOUSTICAL LINER.
- RECTANGULAR DUCT INDICATED AS BEING BE INTERNALLY LINED SHALL USE 1-INCH THICK, 1.5 LB. DENSITY LINER EQUAL TO CERTAINTEEED TOUGHGARD. LINER SHALL MEET REQUIREMENTS OF ASTM C 665 AND ASTM G 21 & G 22 FOR RESISTANCE TO FUNGAL AND BACTERIAL ATTACK. LINER SHALL BE INSTALLED WITH PINS & ADHESIVE AS RECOMMENDED BY MFG. & SMACNA. DUCT SIZES ON PLANS ARE METAL DIMENSIONS AND INCLUDE ALLOWANCES FOR LINER.
- INSULATE & SEAL ALL GRILLE & DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATION. PROVIDE SUPPLY DIFFUSERS WITH EITHER MOLDED FIBERGLASS BACK INSULATION OR A SEPARATE INSULATION BLANKET.
- ALL HARD DUCT SHALL MAINTAIN A MINIMUM CLEARANCE OF 8" ABOVE THE TOP OF CEILING GRID, UNLESS NOTED OTHERWISE.

PIPE SYSTEMS:

- PROVIDE SUBMITTALS FOR ALL PIPING SYSTEMS INCLUDING PIPE, FITTINGS, VALVES, HANGERS, BUILDING ATTACHMENTS, ETC. INCLUDE WELDING CERTIFICATES WHERE PIPE BEING PROVIDED IS WELDED OR WELDED SUPPORTS ARE BEING PROVIDED.
- ALL PIPING SHALL BE SUPPORTED & SECURED WITH SUITABLE HANGERS, STRAPS OR PIPE STANDS. SUPPORT WITH NO DROOPS OR SAGS. ALL HANGERS AND ATTACHMENTS SHALL BE PLATED, GALVANIZED OR PAINTED. PROVIDE ISOLATION ON PIPING OF DISSIMILAR MATERIALS.
- CONDENSATE TRAPS FOR ALL AC UNITS SHALL BE SIZED AS RECOMMENDED BY UNIT MANUFACTURER'S. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC ROUTED TO DRYWELL OR STORM DRAIN. INSULATE WITH FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION.
- REFRIGERANT PIPING SHALL BE TYPE ACR COPPER WITH SILVER SOLDERED JOINTS. INSTALL PER EQUIPMENT INSTALLATION INSTRUCTIONS. INSULATION SHALL BE FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION. PROTECT EXTERIOR INSULATION FROM SOLAR DETERIORATION WITH UV COATING. ROUTE REFRIGERANT PIPING ABOVE CEILINGS AND WITHIN DUCT CHASES. PIPING TO PENETRATE ROOF ADJACENT TO CONDENSING UNIT.

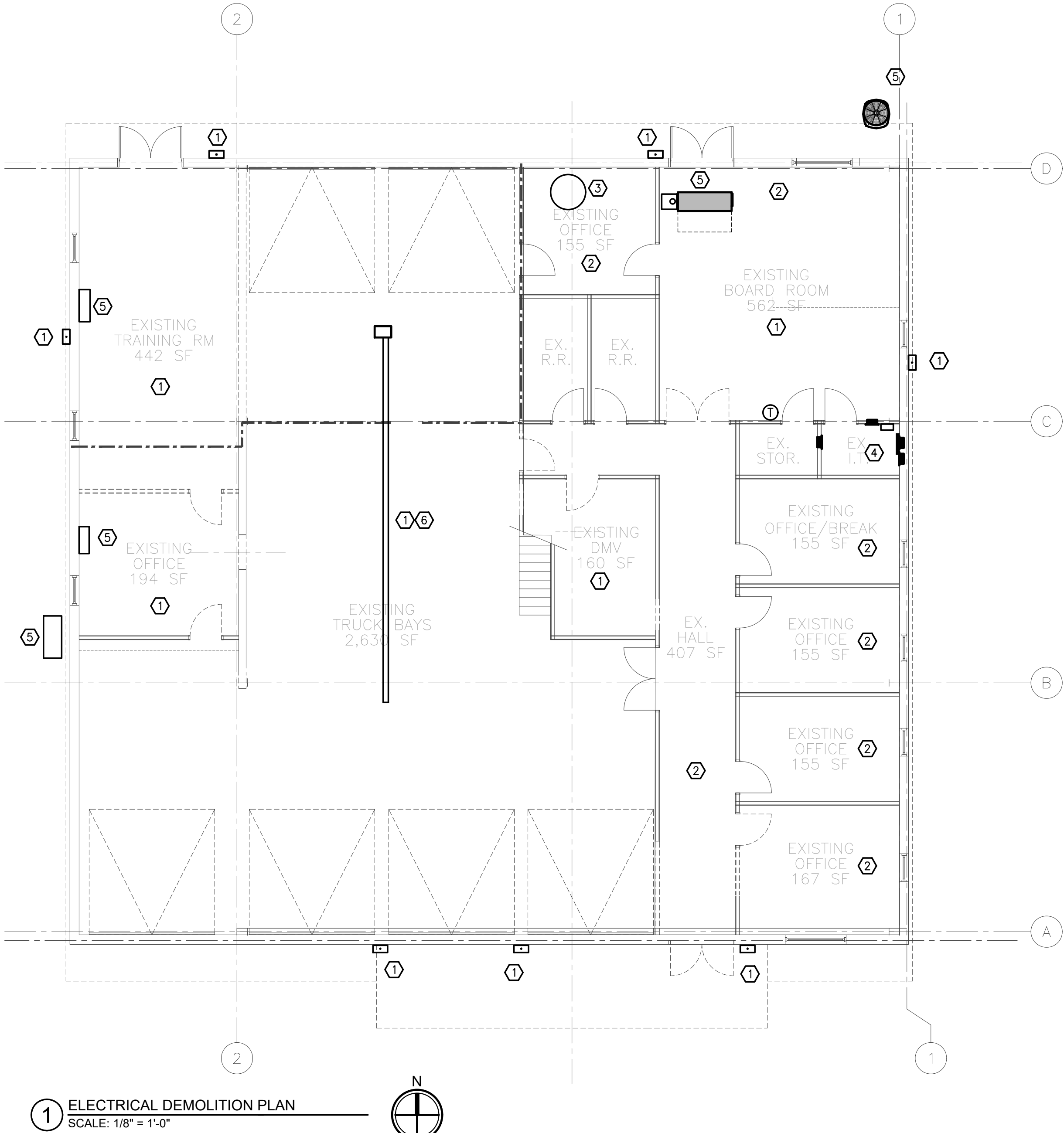
HVAC LEGEND	
	RIGID RECTANGULAR DUCT
	RIGID RECTANGULAR DUCT WITH LINER
	RIGID ROUND DUCT
	FLEXIBLE DUCT
	OFFSET UP IN DIRECTION OF AIR FLOW
	OFFSET DOWN IN DIRECTION OF AIR FLOW
	90° ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTION
	MANUAL VOLUME DAMPER
	MOTOR OPERATED DAMPER
	SMOKE DETECTOR WITH ACCESS DOOR
	ACCESS DOOR VERTICAL OR HORIZONTAL
	BRANCH DUCT WITH 45° TAP
	SUPPLY DIFFUSER WITH ROUND NECK
	RETURN/EXHAUST GRILLE W/ROUND NECK
	ROOF CAP, INTAKE
	ROOF CAP, EXHAUST
	PITCHED ROOF JACK, EXHAUST
	POWERED ROOF EXHAUSTER
	CEILING EXHAUST FAN
	WALL THERMOSTAT FOR SYSTEM NO. 3
	AIR DISTRIBUTION MARK "B", 200 CFM
	EQUIPMENT MARK (SEE SCHEDULES)
	FLOW DIRECTION ARROW
	CONDENSATE PIPING
	REFRIGERANT PIPING
	UNION
	REDUCER
ABBREVIATIONS:	
G.C.	GENERAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
ECM	ELECTRONICALLY COMMUTATED MICROPROCESSOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
UNO	UNLESS NOTED OTHERWISE
BOD	BOTTOM OF DUCT
TOD	TOP OF DUCT

DEMOLITION KEYED NOTES "A":

1. REMOVE ALL RECEPTACLES, JUNCTION BOXES, AND/OR DATA OUTLETS. REMOVE POWER WIRING AND RACEWAY COMPLETELY. REMOVE DATA WIRING BACK TO IT CLOSET. REMOVE LIGHT FIXTURES, SWITCHES, WIRING, AND RACEWAYS.
2. REMOVE RECEPTACLE FROM JUNCTION BOX IN SPACE. REPLACE RECEPTACLE WITH NEW DEVICE AND FACEPLATE.
3. DISCONNECT WATER HEATER AND REMOVE WIRING AND RACEWAY.
4. REMOVE ALL PANELBOARDS AND ASSOCIATED WIRING AND RACEWAYS.
5. DISCONNECT CONDENSING UNIT AND ASSOCIATED AIR HANDLER AND REMOVE ALL WIRING, RACEWAYS, AND DISCONNECTS.
6. DISCONNECT ALL EQUIPMENT SUCH AS AIR COMPRESSORS, OVERHEAD DOOR MOTORS & CONTROLS, INFRARED HEATER, AND CORD REELS. REMOVE ASSOCIATED WIRING, RACEWAYS AND DISCONNECTS.

DEMOLITION NOTES:

1. PRIOR TO SUBMITTING A BID, CONTRACTOR MUST VISIT THE JOB SITE IN ORDER TO HAVE A WORKING KNOWLEDGE OF THE EXISTING SYSTEMS AND CONDITIONS.
2. DEMOLITION PLANS SHOW APPROXIMATE LOCATIONS OF EXISTING ELECTRICAL SYSTEMS. ALL ITEMS ENCLOSED IN THE STRUCTURE MAY NOT BE NOTED OR MAY BE SHOWN SCHEMATICALLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TERMINATIONS AND RECONNECTIONS REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM. INFORMATION IS BASED ON NON-DESTRUCTIVE FIELD INVESTIGATION AND/OR EXISTING DRAWING INFORMATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONDITIONS THAT REQUIRE CORRECTIVE ACTION BEYOND THE SCOPE OF THESE PLANS. ALL FIELD CORRECTIONS SHALL BE RED-LINED AND PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. ALL ABANDONED CONCEALED CONDUIT NOT READILY REMOVABLE SHALL BE CAPPED BELOW FINISH SURFACES. REMOVE ALL EXISTING EQUIPMENT AND RACEWAY SUPPORTS NOT USED.
4. REMOVE ALL ACCESSIBLE CONDUIT AND DEVICES ON CIRCUITS BEING REMOVED. WIRING SHALL BE REMOVED BACK TO PANELS. BREAKERS SHALL REMAIN AND LABELED AS SPARE. UPDATE PANEL SCHEDULES MATCHING THE MODIFIED CONDITION.
5. GENERAL CONTRACTOR SHALL REPAIR ALL WALL, FLOOR & CEILING OPENINGS FROM DEMOLITIONS OF ELECTRICAL WORK. FINISH SURFACES SHALL BE RESTORED TO MATCH ORIGINAL CONDITION. ELECTRICAL CONTRACTOR SHALL TAKE EXTREME CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING SURFACES.
6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AND WASTE MATERIAL OF DEMOLITION & CONSTRUCTION UNLESS DIRECTED OTHERWISE. THE OWNER RESERVES THE RIGHT TO RETAIN ANY ITEM WHETHER NOTED ON PLANS OR NOT.
7. BUILDING UTILITY SHUTDOWN – ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO ANY UNAVOIDABLE UTILITY SHUTDOWN.
8. CONTRACTOR SHALL REMOVE ALL ABANDONED CONDUIT AND WIRE.
9. REFERENCE AND COORDINATE WITH ARCHITECTURAL PLANS FOR CONSTRUCTION PHASING. OWNER WILL OCCUPY THE EAST SIDE OFFICE WHILE THE EXISTING TRUCK BAYS ARE UNDER CONSTRUCTION.





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PROJECT NO. 224011 PROJECT MGR. DRAWN BY
D. HAM B. TRENT



REVISIONS:

#	DESC:	DATE
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DRAWN BY: DJH/JAL

PROJECT #: 23018

ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION
DOCUMENTS

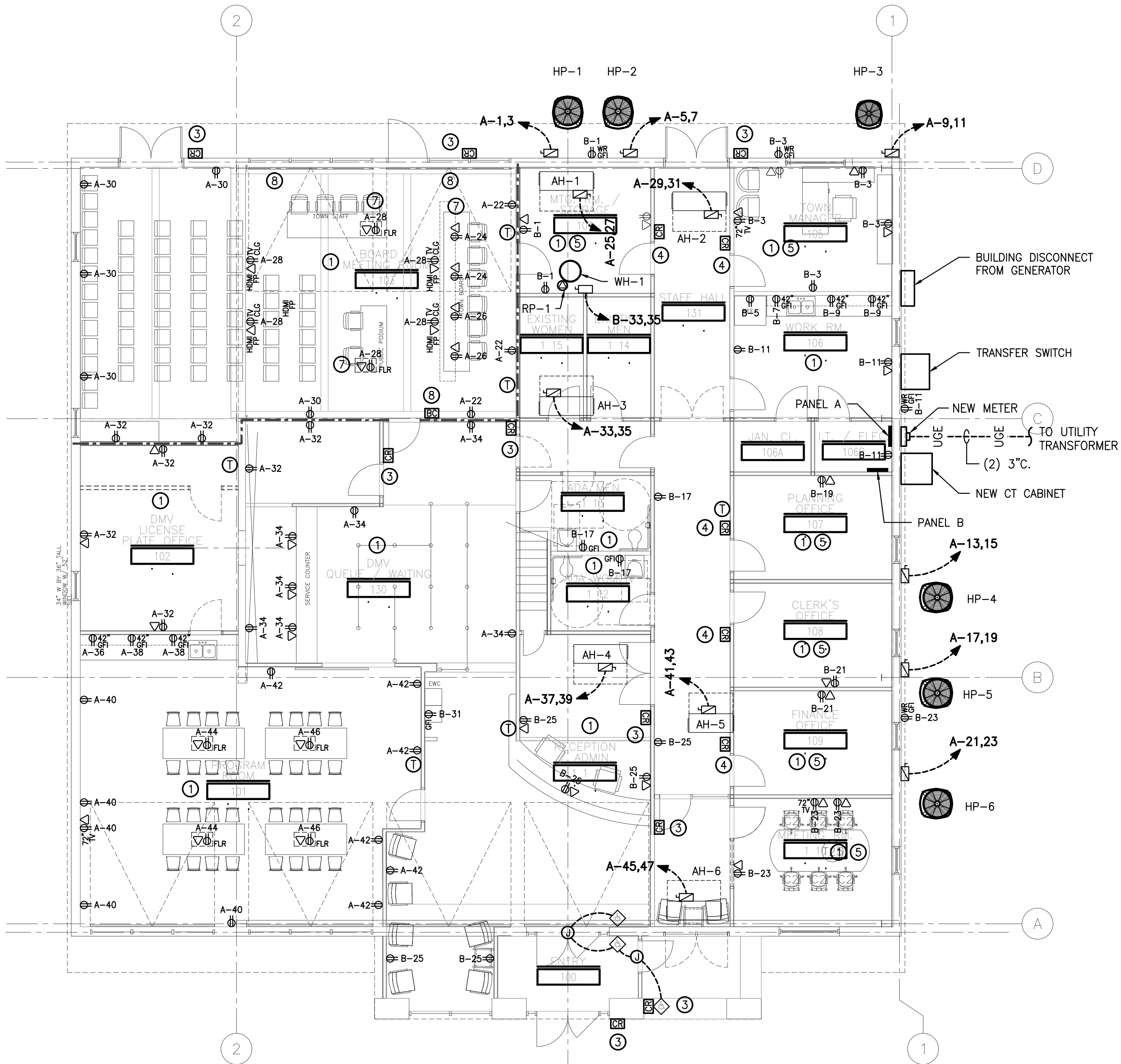
SHEET NAME & NUMBER

ELECTRICAL PLANS

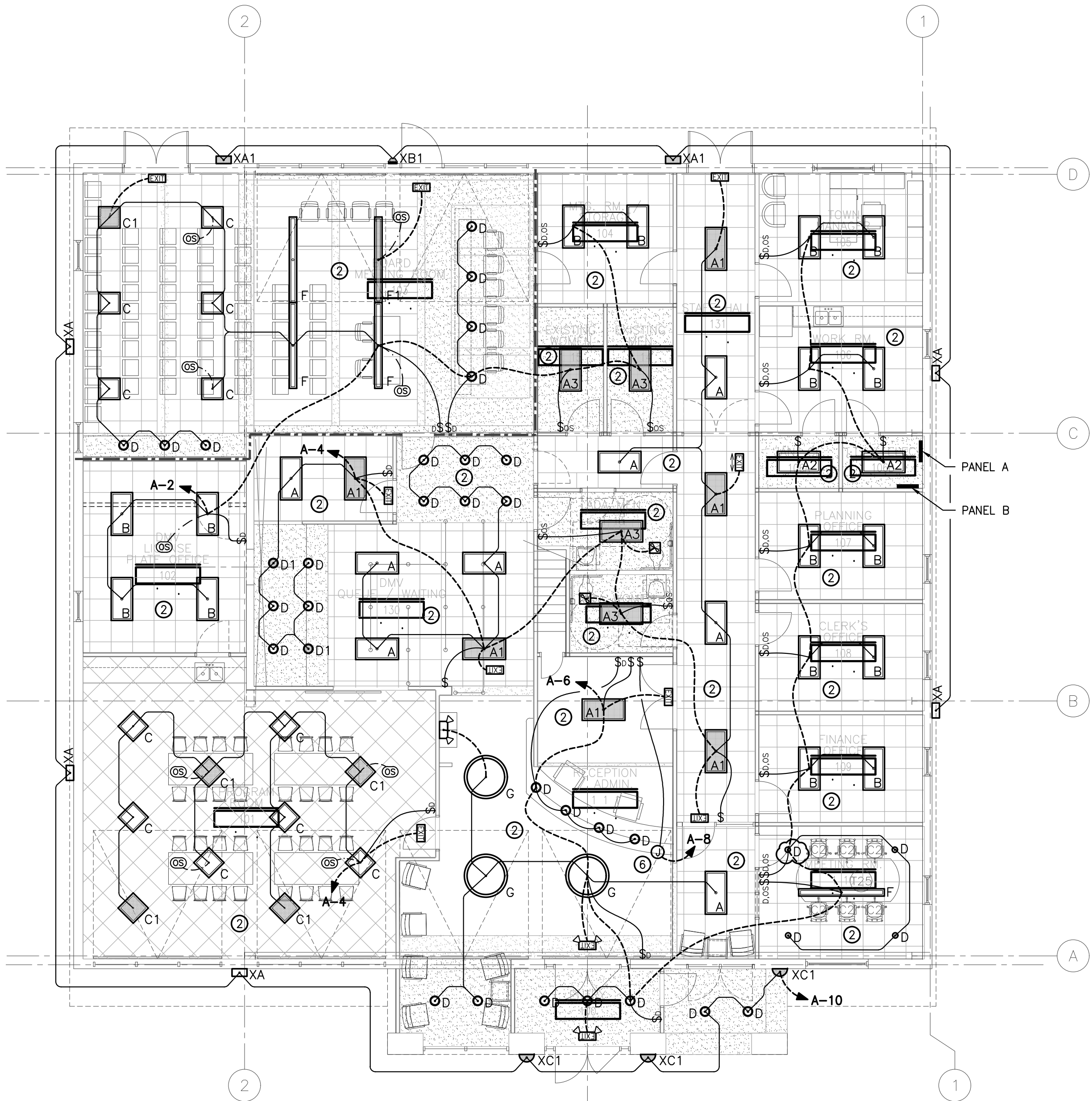
E1.01

INSTALLATION KEYED NOTES "A":

1. PROVIDE NEW RECEPTACLE AND/OR DATA OUTLET.
2. PROVIDE NEW LIGHT FIXTURE AND SWITCHED WIRING AS REQUIRED. CONNECT FIXTURE TO EXISTING LIGHTING CIRCUIT IN SPACE.
3. PROVIDE CARD READER FOR BASE BID.
4. ALTERNATE: PROVIDE CARD READER.
5. CONNECT EXISTING RECEPTACLES TO CIRCUIT SHOWN IN ROOM FOR NEW RECEPTACLES.
6. FOR OWNER SIGNAGE ON BULKHEAD. E.C. TO INSTALL AND WIRE.
7. PROVIDE FLOOR BOX AT THE TOWN BOARD DESK, TOWN STAFF DESK, AND PUBLIC PODIUM. PROVIDE 2" C. FROM FLOOR BOX TO ABOVE CEILING FOR OWNERS HDMI CABLES.
8. PROVIDE NEW WINDOW BLIND CONTROLS AND CONTROL WIRING AS REQUIRED. CONNECT NEW BLINDS AND CONTROL WIRING FOR A COMPLETE SYSTEM. CONNECT BLIND MOTORS/CONTROLS TO CIRCUIT A-30.



1 ELECTRICAL POWER AND RECEPTACLE RENOVATION PLAN
SCALE: 1/8" = 1'-0"



2 ELECTRICAL POWER AND LIGHTING RENOVATION PLAN
SCALE: 1/8" = 1'-0"

FIRE RATING LEGEND
1 - HR RATED WALL

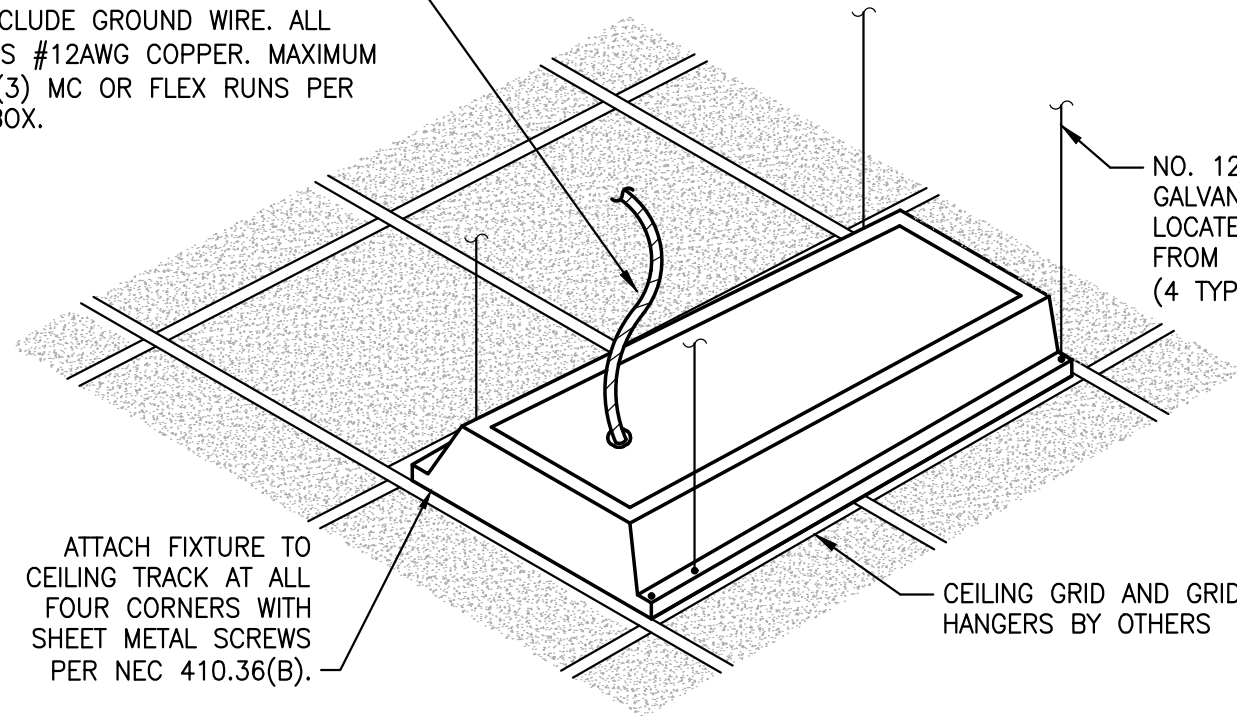
DEVICE DESCRIPTION	EXTERIOR RECEPTACLE	DUPLEX RECEPTACLE	ABOVE COUNTER RECEPTACLE	PHONE/DATA	ABOVE COUNTER PHONE/DATA	ALL OTHER WALL MOUNTED CONTROL DEVICES	EXHAUST FAN WALL SWITCH/SPEED CONTROL	HVAC THERMOSTAT OR SENSOR	LIGHT SWITCH OR OTHER LIGHTING CONTROL DEVICE	LIGHT SWITCHES AND OTHER LIGHTING CONTROL DEVICES SHALL ALWAYS BE LOCATED ON THE STRIKE SIDE OF THE DOORWAY. (VERIFY DOOR SWINGS PRIOR TO ROUGH-IN)
EXAMPLES OF DEVICE SYMBOLS										

NOTES:

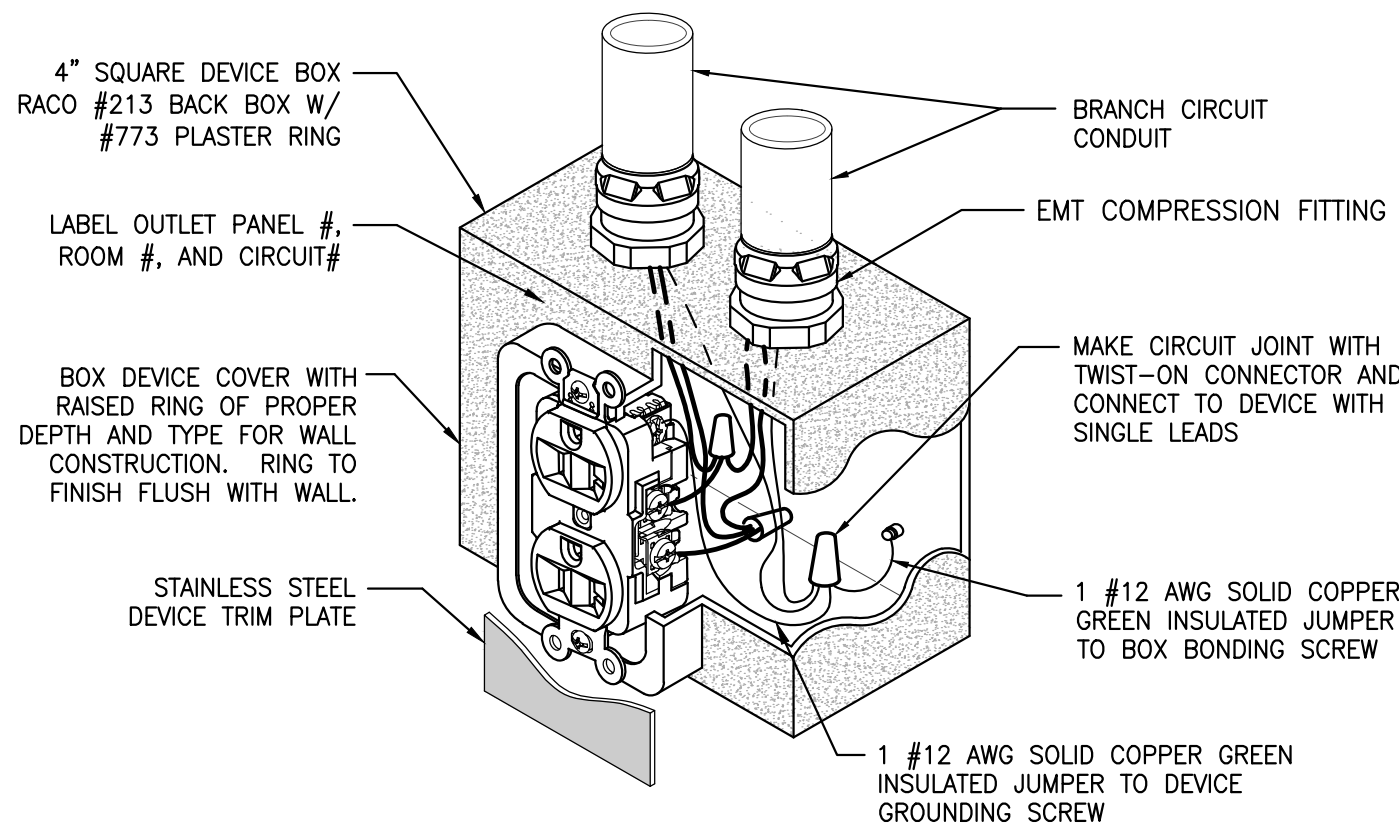
1. THIS DETAIL IS GENERIC TO ADDRESS MOUNTING HEIGHTS OF WALL MOUNTED DEVICES.
2. ALL DEVICES MAY NOT APPLY TO THIS PROJECT.
3. ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
4. REFERENCE ELECTRICAL LEGEND FOR MORE SPECIFIC DEVICES TYPES.
5. VERIFY COUNTER AND BACK SPLASH HEIGHTS PRIOR TO ROUGH-IN.

1 DEVICE MOUNTING HEIGHTS
SCALE: N.T.S.

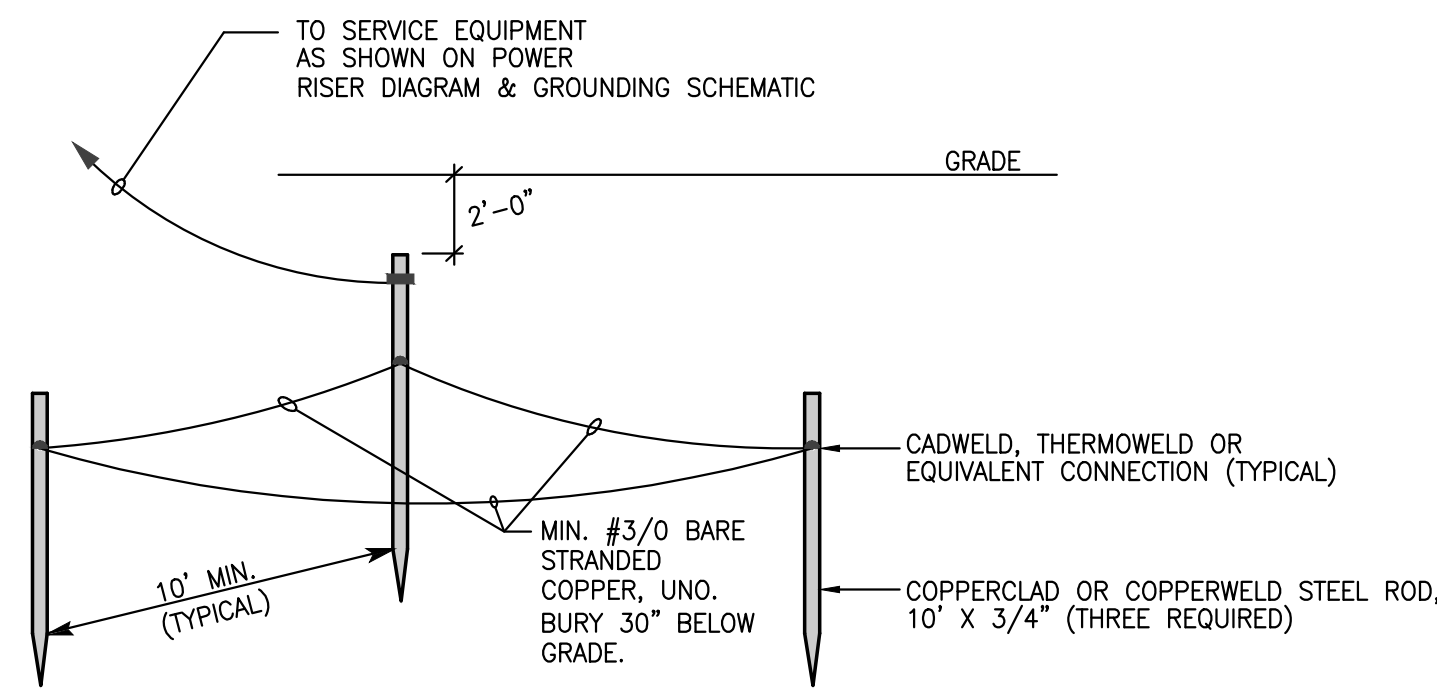
6'-0" MAX. LENGTH CONNECTION TO FIXTURE. INCLUDE GROUND WIRE. ALL CONDUCTORS #12AWG COPPER. MAXIMUM OF THREE (3) MC OR FLEX RUNS PER JUNCTION BOX.



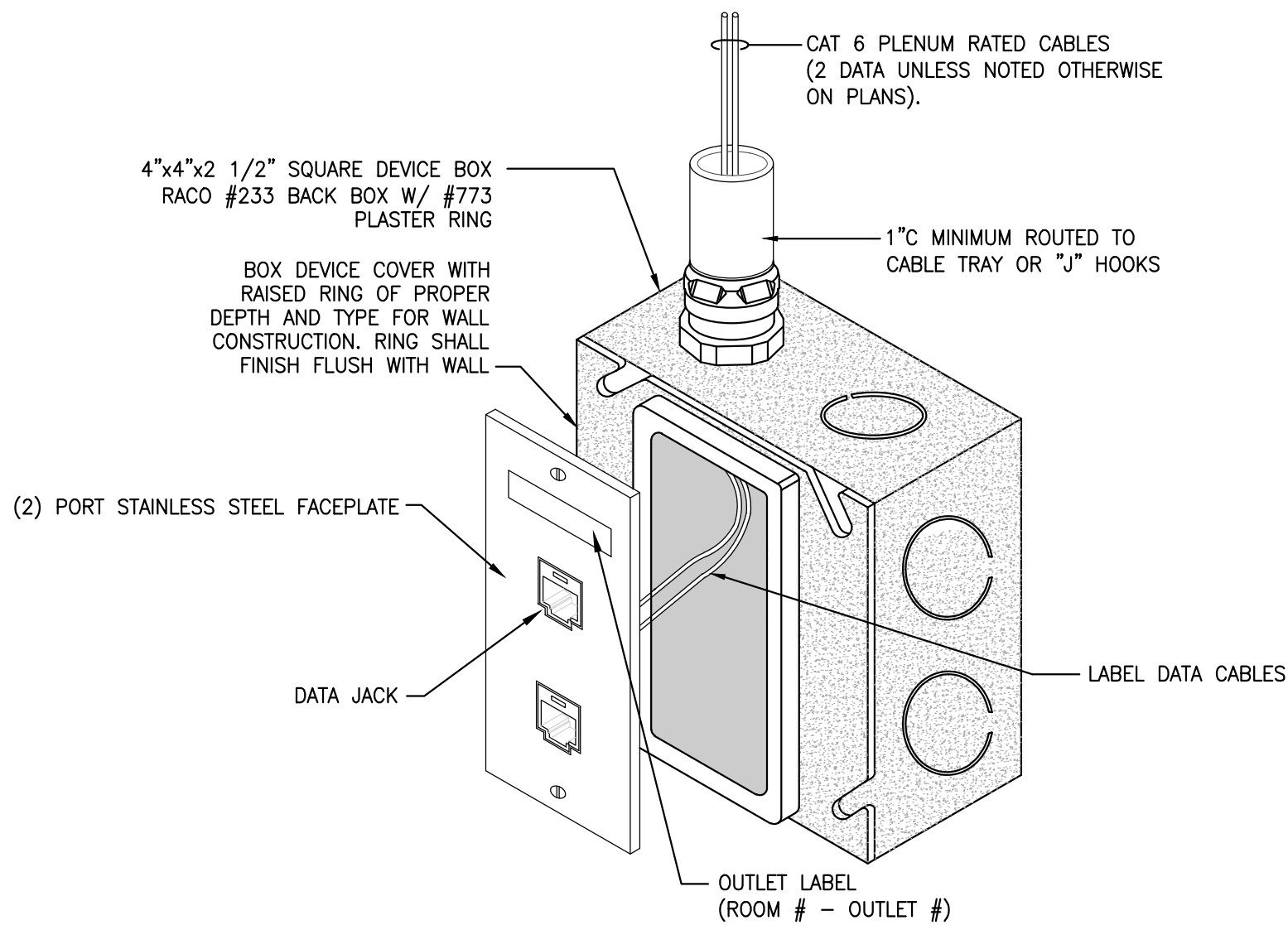
3 TYPICAL RECESSED FIXTURE SUPPORT
SCALE: N.T.S.



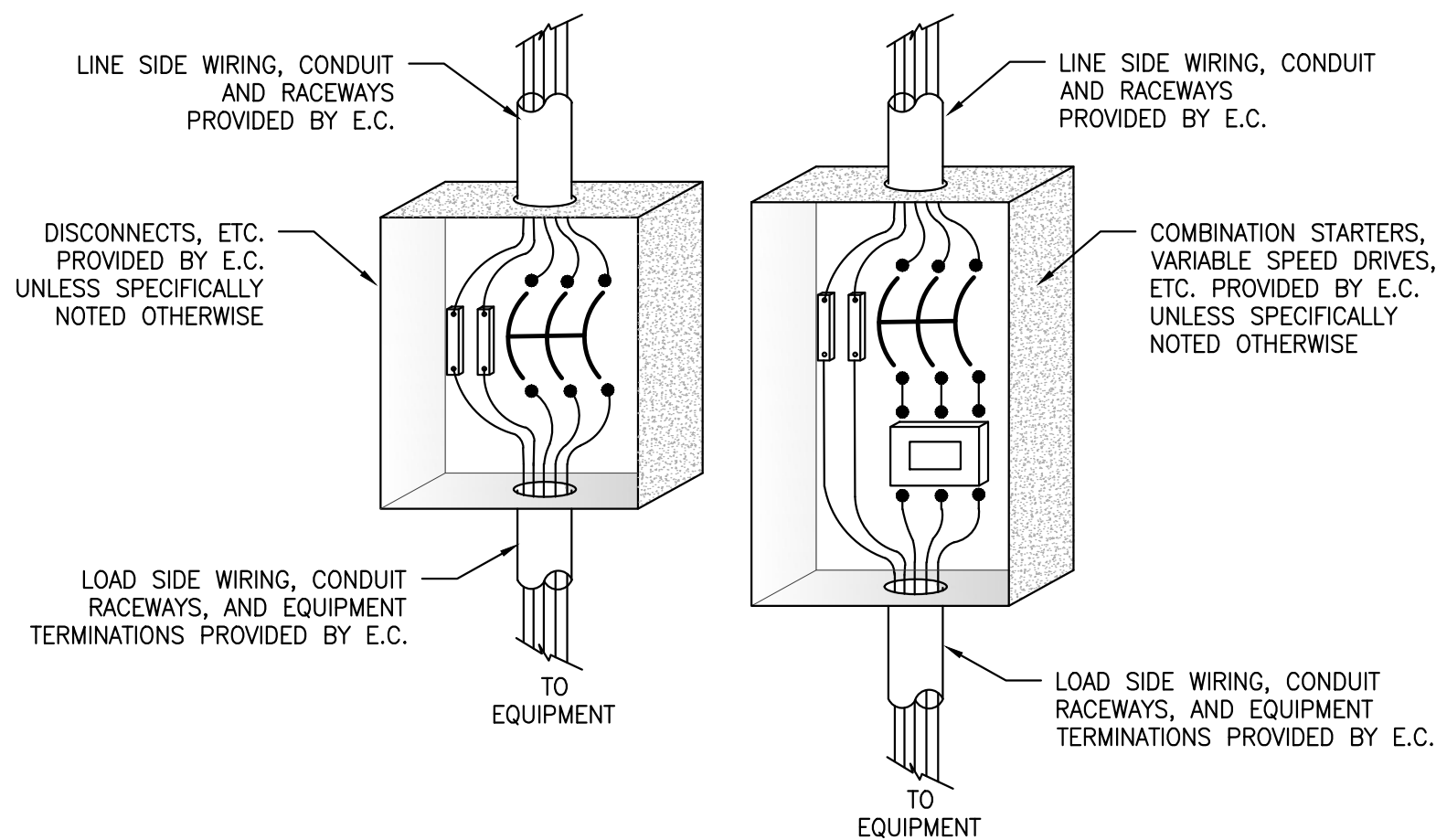
4 RECEPTACLE GROUNDING DIAGRAM
SCALE: N.T.S.



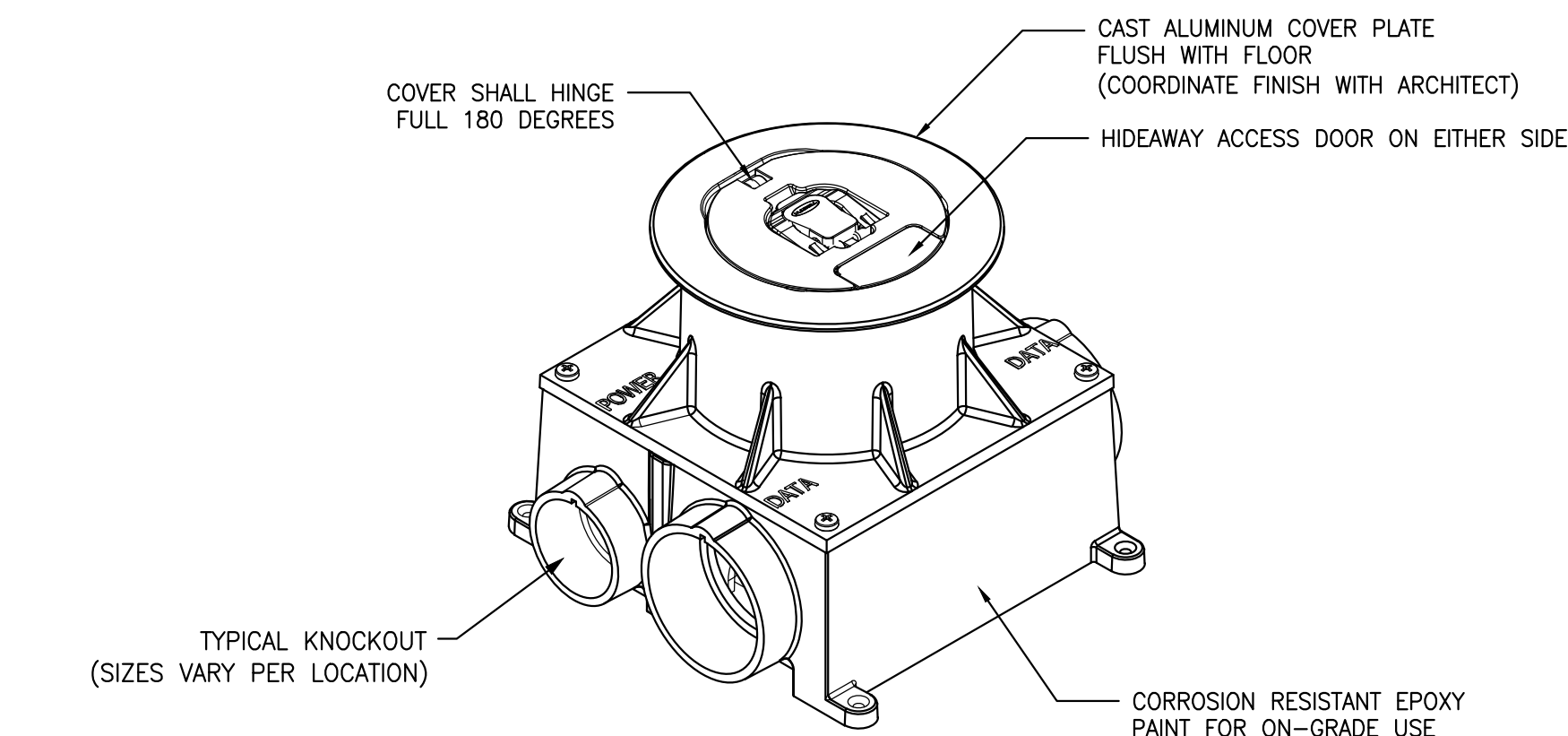
5 TYPICAL MADE GROUNDING ELECTRODE
SCALE: N.T.S.



6 DUPLEX DATA OUTLET
SCALE: N.T.S.



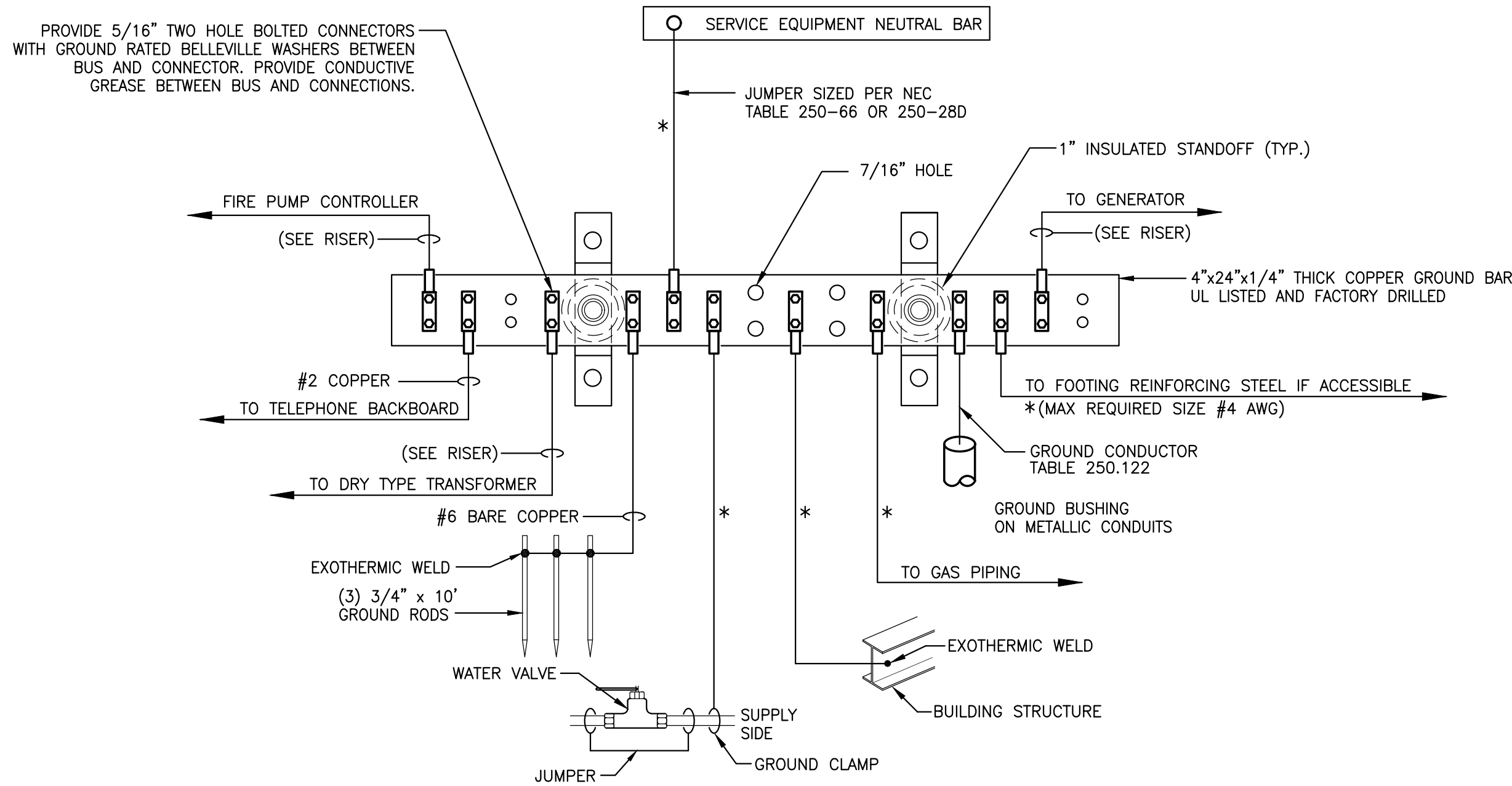
7 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.



NOTES:

1. BOX SHALL BE PROVIDED WITH DIVIDER FOR POWER AND DATA COMPARTMENTS. COORDINATE LID TYPE AND COLOR WITH ARCHITECT.
2. PROVIDE (1) 1" C. FOR DATA AND (1) 2" C. FOR A/V TO ABOVE CEILING.
3. PROVIDE WITH 2-INCH THREADED CONDUIT HUB.
4. PRODUCT SHALL BE UL LISTED AND COMPLY WITH UL 514A FOR SCRUB WATER REQUIREMENTS.
5. BOX SHALL BE RATED FOR "ON-GRADE" USE

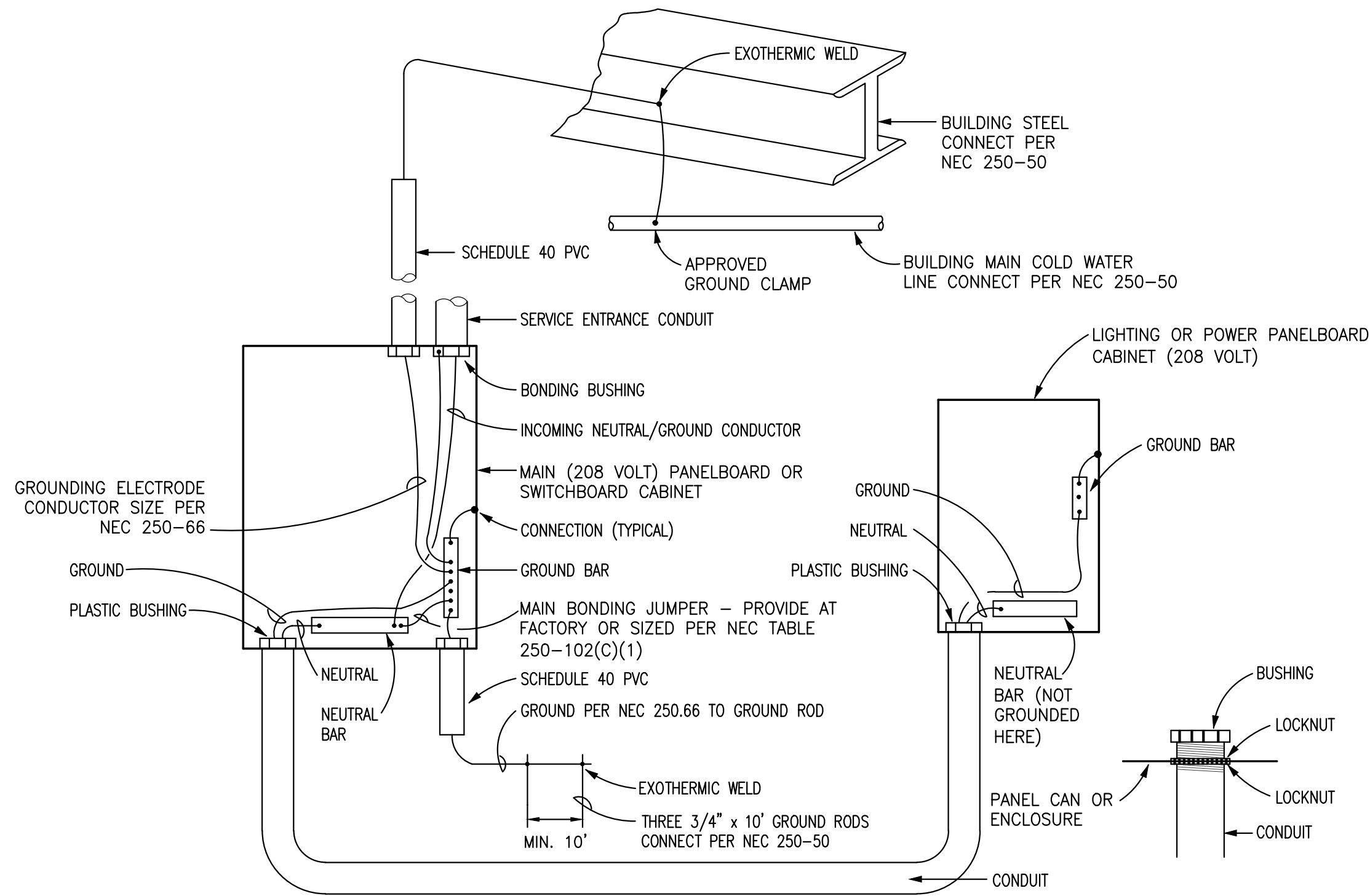
8 MULTISERVICE FLUSH CONCRETE FLOOR BOX (PROGRAM BOX)
SCALE: N.T.S.



NOTES:

1. ALL UNDERGROUND CONNECTIONS SHALL BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION CONNECTIONS, EXCEPT MECHANICAL CONNECTIONS IN TEST WELLS.
2. LABEL RACEWAYS OR CONDUCTORS AT GROUND BUS WITH PHENOLIC TAGS TO IDENTIFY CONNECTION LOCATION SUCH AS: "GAS PIPING", "GROUND RODS" OR "BUILDING STEEL".

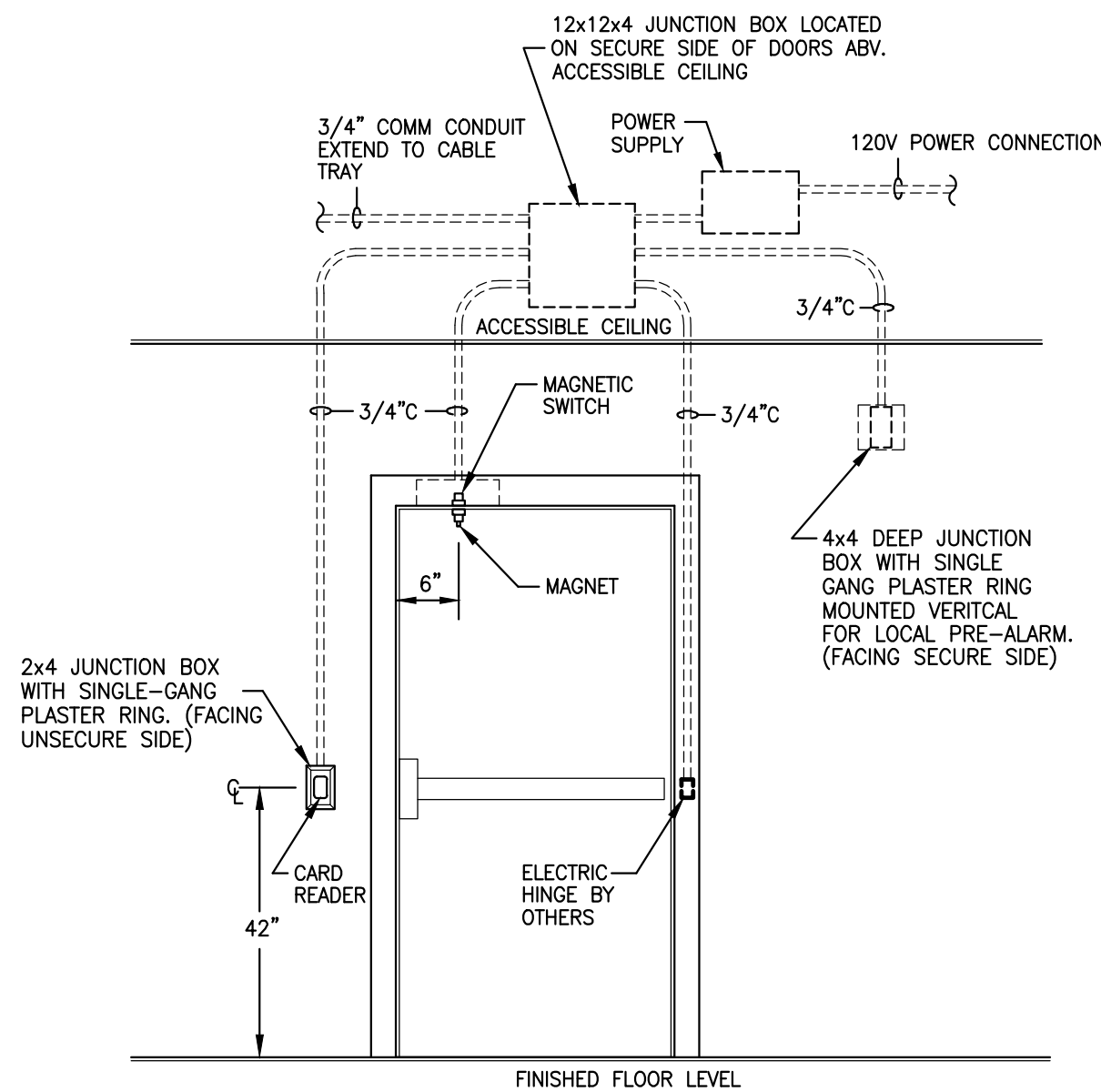
1 SERVICE EQUIPMENT GROUNDING DIAGRAM
SCALE: N.T.S.



NOTES:

1. GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN CONTINUOUSLY (UNBROKEN) FROM COLD WATER LINE AND/OR BUILDING STEEL AND GROUND ROD TO GROUND BAR BEFORE BONDING TO ANY CONDUIT BUSHING.
2. ALL THE FOLLOWING GROUNDING ELECTRODES THAT ARE AVAILABLE SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM PER NEC 250.52:
 - 2.1. METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10 FT OR MORE
 - 2.2. METAL FRAME OF THE BUILDING.
 - 2.3. ANY ELECTRODE ENCASED BY AT LEAST 2 IN. OF CONCRETE, CONSISTING OF 20 FT OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS NOT LESS THAN 1/2" IN DIAMETER.
 - 2.4. GROUND RING ENCIRCLING THE BUILDING
 - 2.5. ROD AND PIPE ELECTRODES NOT LESS THAN 8 FT.
 - 2.6. PLATE ELECTRODES

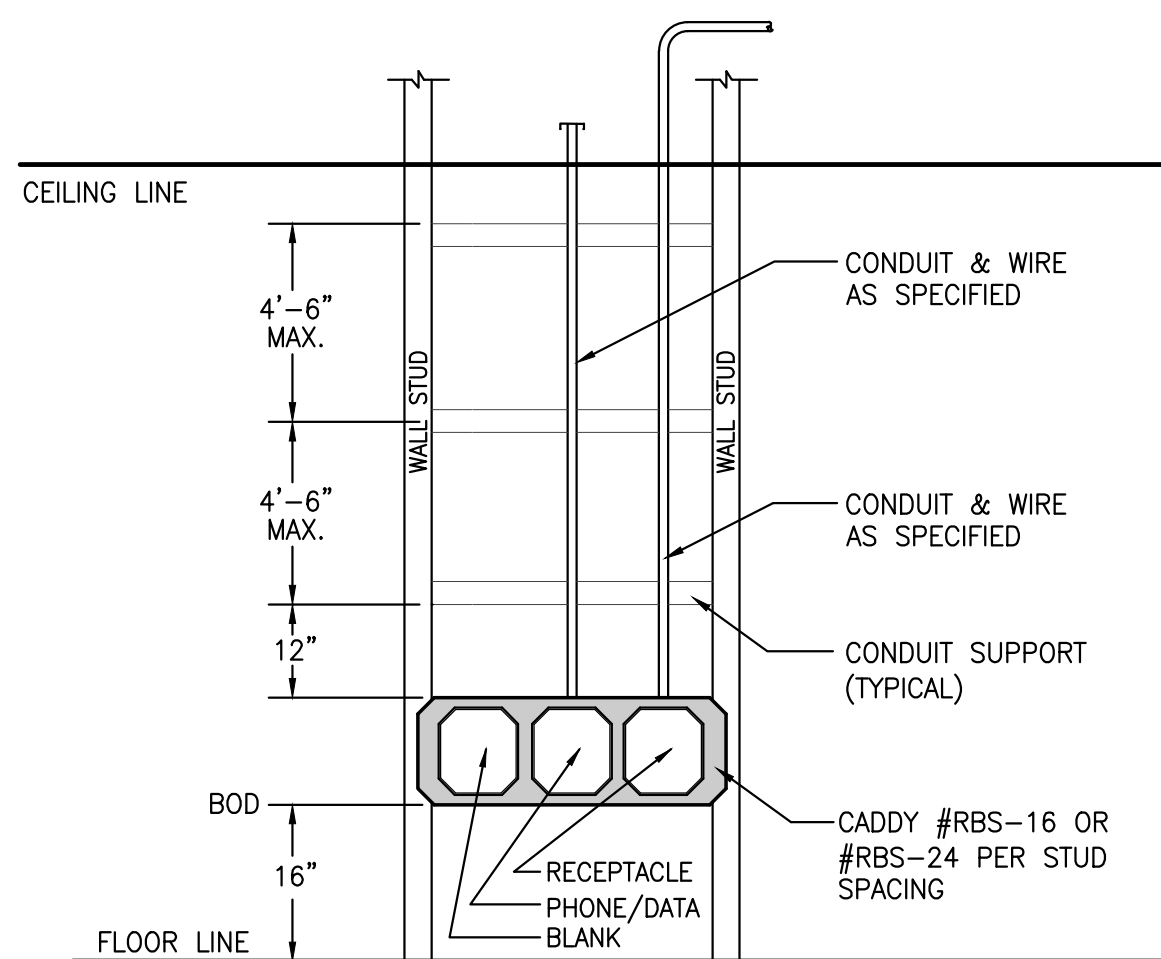
4 TYPICAL BONDING & GROUNDING DIAGRAM
SCALE: N.T.S.



NOTES:

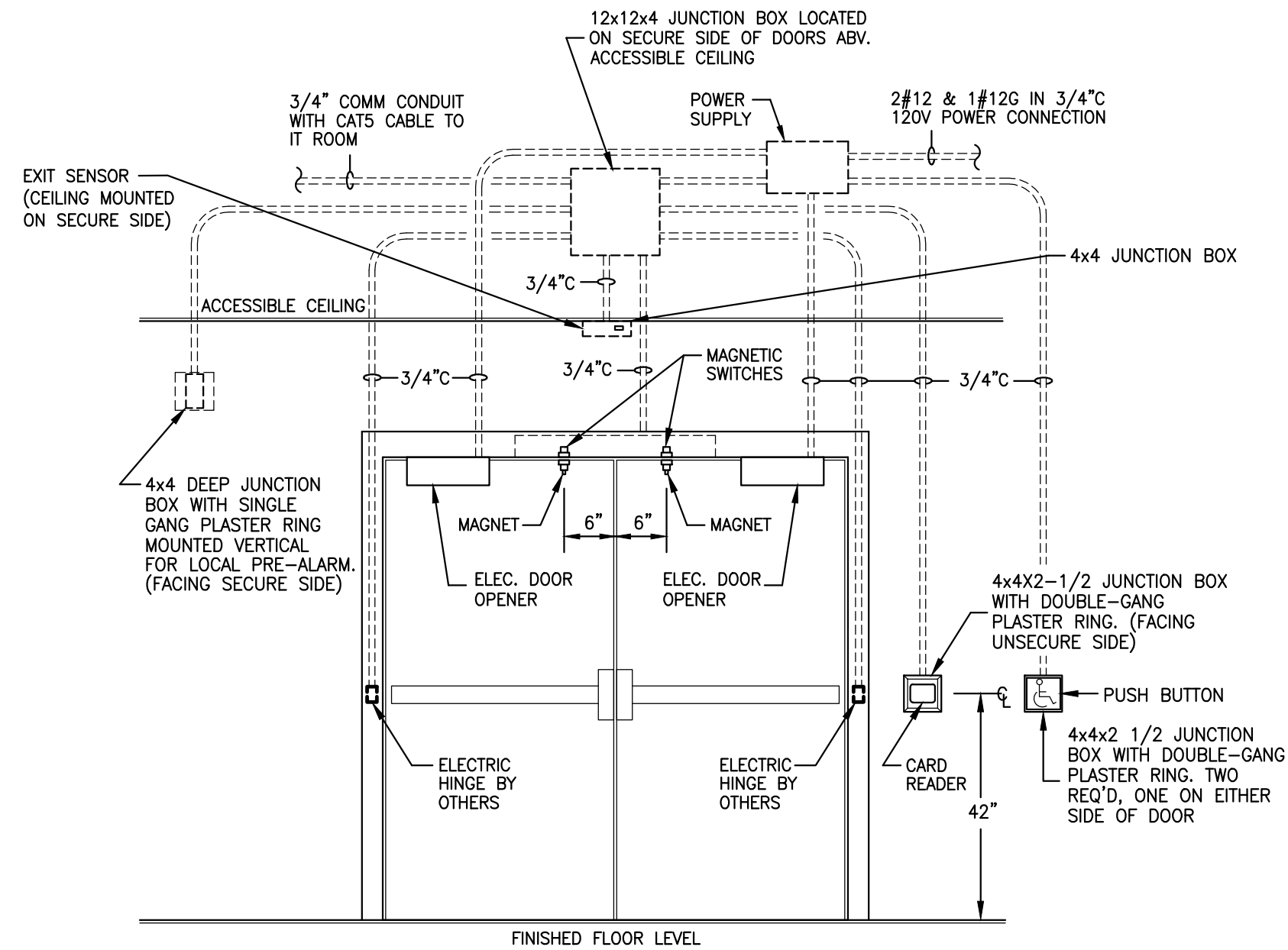
1. COORDINATE THE EXACT LOCATION OF SECURITY DEVICES, CONDUIT, AND JUNCTION BOXES WITH ARCHITECT, AND SECURITY VENDOR.
2. EC SHALL PROVIDE ALL JUNCTION BOXES AND CONDUITS AS SHOWN INCLUDING APPROPRIATE EXTENSION RINGS, COVERS, ETC. EC SHALL INCLUDE PULL STRINGS IN ALL CONDUITS. COORDINATE ACTUAL LOCATION OF ALL DEVICES AND JUNCTION BOX SIZES WITH HARDWARE VENDOR PRIOR TO INSTALLATION. HARDWARE VENDOR SHALL PROVIDE ALL DEVICES AND ALL WIRING OTHER THAN 120 VOLT POWER WIRING.
3. COORDINATE CONDUITS TO DOOR DEVICES WITH DOOR FRAMING FOR CONCEALED MAGNETIC DOOR POSITION SWITCHES AND ELECTRIC HINGES.
4. ALL SECURITY ELECTRONICS JUNCTION BOXES SHALL BE MOUNTED ON THE SECURE SIDE OF DOOR.

2 CARD ACCESS AT DOOR
SCALE: N.T.S.



- NOTES:**
1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX.
 2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.

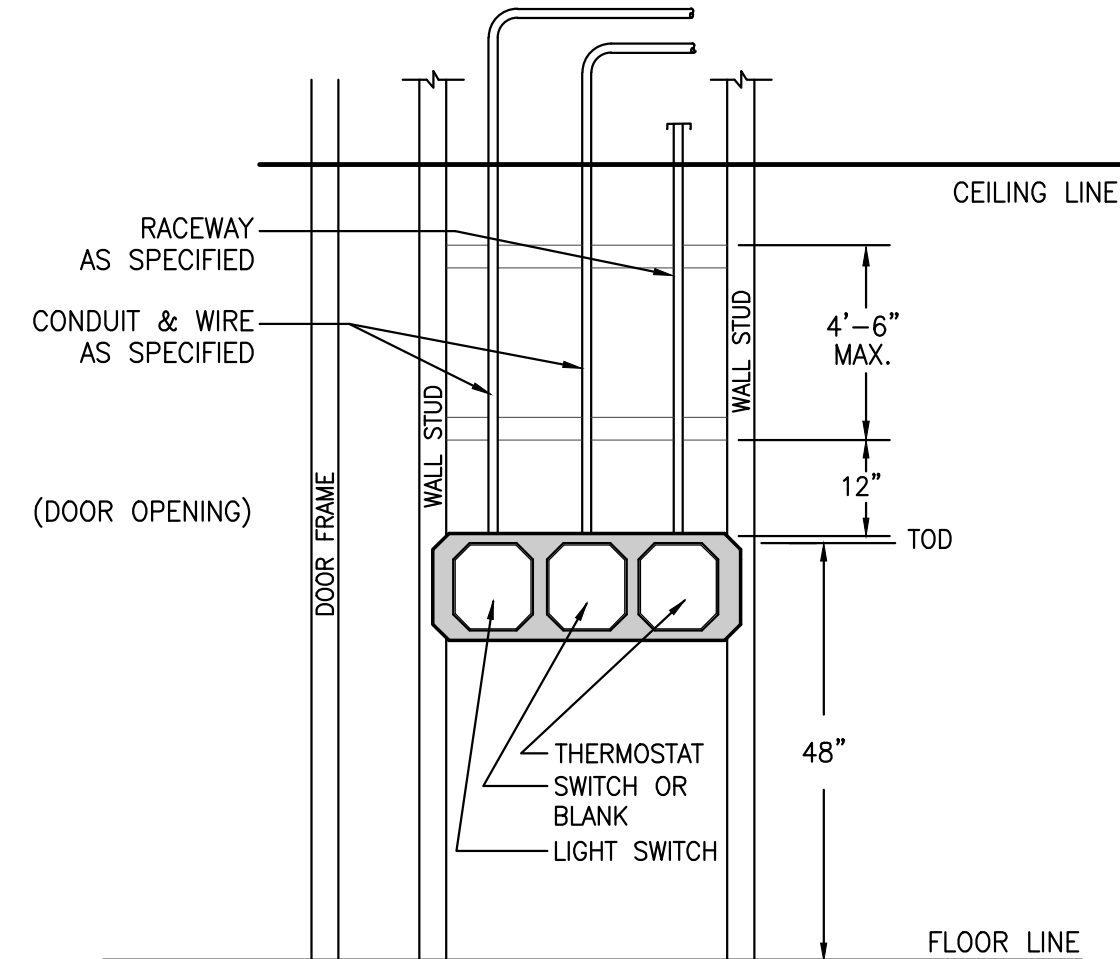
5 TYPICAL DEVICE MOUNTING
SCALE: N.T.S.



NOTES:

1. COORDINATE THE EXACT LOCATION OF SECURITY DEVICES, CONDUIT, AND JUNCTION BOXES WITH ARCHITECT, AND SECURITY VENDOR.
2. EC SHALL PROVIDE ALL JUNCTION BOXES AND CONDUITS AS SHOWN INCLUDING APPROPRIATE EXTENSION RINGS, COVERS, ETC. EC SHALL INCLUDE PULL STRINGS IN ALL CONDUITS. COORDINATE ACTUAL LOCATION OF ALL DEVICES AND JUNCTION BOX SIZES WITH HARDWARE VENDOR PRIOR TO INSTALLATION. HARDWARE VENDOR SHALL PROVIDE ALL DEVICES AND ALL WIRING OTHER THAN 120 VOLT POWER WIRING.
3. COORDINATE CONDUITS TO DOOR DEVICES WITH DOOR FRAMING FOR CONCEALED MAGNETIC DOOR POSITION SWITCHES AND ELECTRIC HINGES.
4. ALL SECURITY ELECTRONICS JUNCTION BOXES SHALL BE MOUNTED ON THE SECURE SIDE OF DOOR.

3 CARD ACCESS AT DOOR WITH ADA ACCESS
SCALE: N.T.S.



- NOTES:**
1. UTILIZE BRACKET WHEN INSTALLING MORE THAN ONE BOX.
 2. SEE PLANS FOR LOCATIONS & SPECIFIC QUANTITIES.
 3. LIGHT SWITCHES SHALL BE MOUNTED WITHIN 4" OF DOOR FRAME. USE SAME WIDTH IN ALL LOCATIONS. COORDINATE ADDITIONAL FRAMING WITH G.C. TO MAKE SPACING THE SAME IN ALL ROOMS OF SIMILAR TYPE.

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PROJECT #: 23018

ISSUE DATE: 04/30/2025

PHASE:

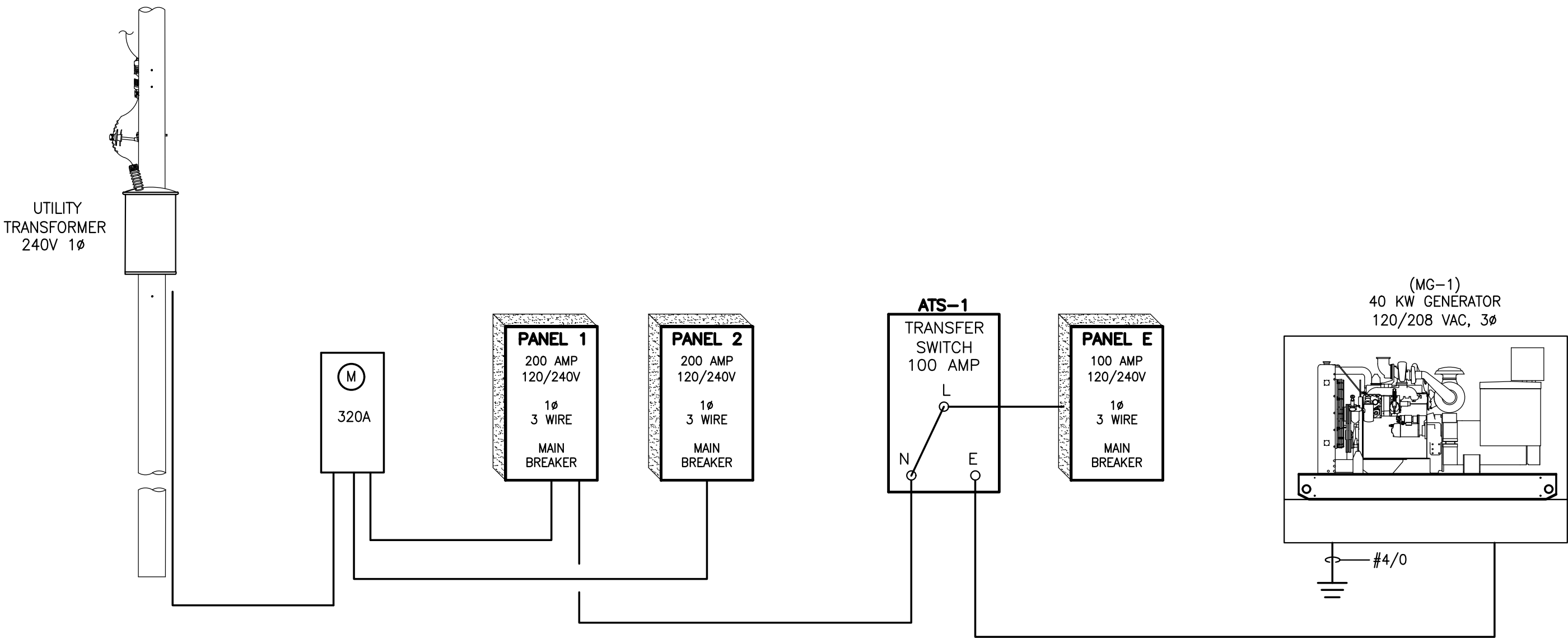
CONSTRUCTION
DOCUMENTS

SHEET NAME & NUMBER

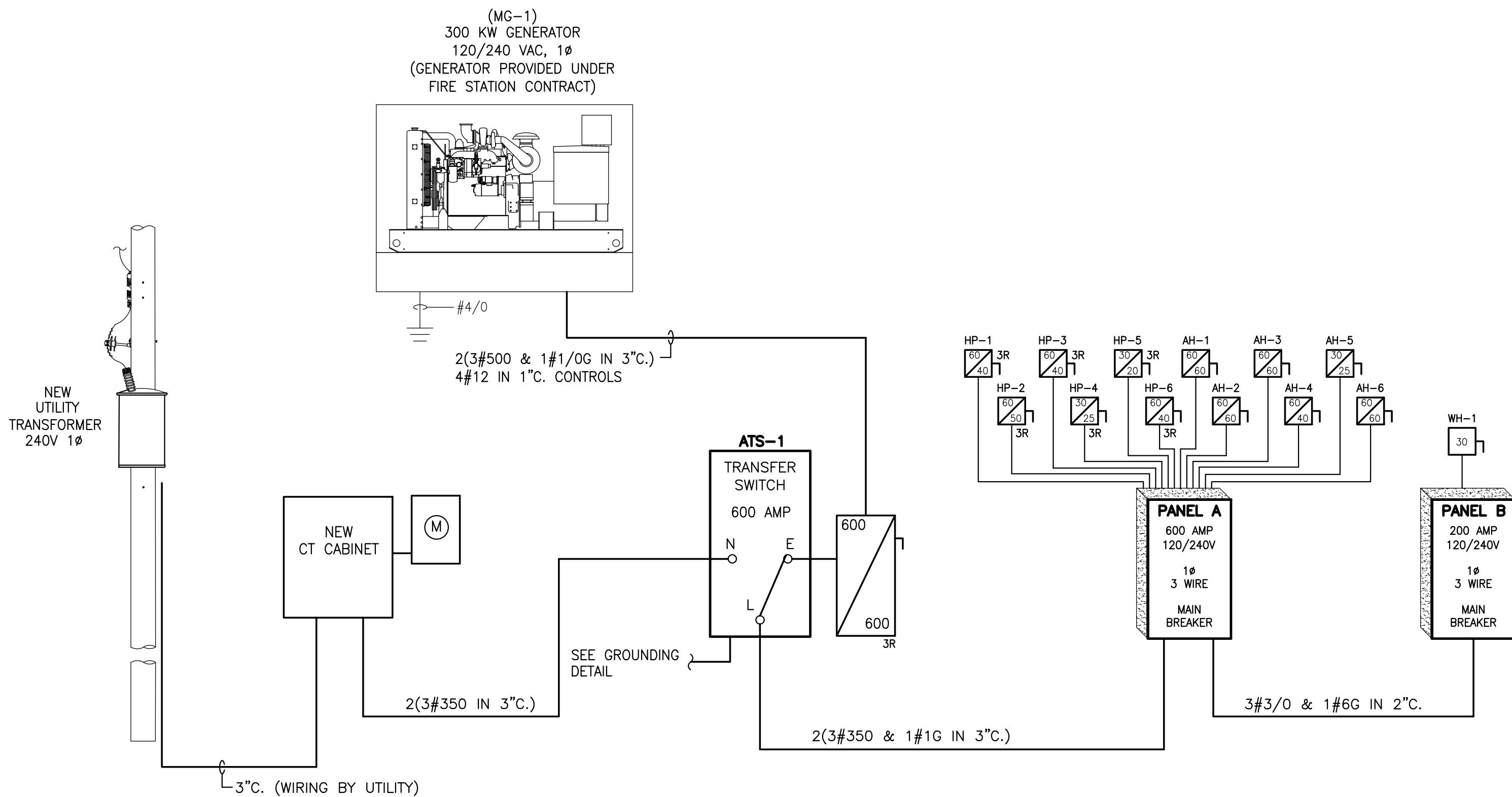
ELECTRICAL DETAILS

EXISTING SERVICE LOAD SUMMARY					
OCCUPANCY TYPE - OFFICE			BUILDING AREA - 5,944 SQUARE FEET		
CONTINUOUS LOAD DESCRIPTION	LOAD (KVA)	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD (KVA)
INDOOR LIGHTING	7.7	TABLE 220.12	100%	TABLE 220.42	7.7
OUTDOOR LIGHTING	0.5	--	100%	--	0.5
SIGN LIGHTING	1.2	220.14 F	100%	--	1.2
TRACK LIGHTING		220.43	100%	--	###
PACKAGED HVAC UNITS		ARTICLE 440	100%	--	###
AIR HANDLER FANS (SPLIT SYSTEMS)	0.8	ARTICLE 440	100%	--	0.8
AIR HANDLER ELECTRIC HEAT	14.4	422.12	100%	--	14.4
HVAC OUTDOOR UNIT	6.2	ARTICLE 440	100%	--	6.2
WATER HEATERS	4.5	422.13	100%	--	4.5
SUBTOTAL CONTINUOUS LOADS					35.3
					230.42 A 1
					x 125%
					44.1
CONT. LOAD TOTAL					
NON CONTINUOUS LOAD DESCRIPTION					
RECEPTACLES UP TO 10 KVA	5.0	220.14 1	100% OF 1st 10 KVA		5.0
RECEPTACLES OVER 10 KVA	0.0	220.14 1	50% ABOVE 10 KVA		0.0
MISC. LOADS	5.0	--	NONCONTINUOUS LOAD x 100%		5.0
MISC. LOADS	0.0	--	NONCONTINUOUS LOAD x 100%		0.0
SUBTOTAL NON-CONTINUOUS LOADS					10.0
TOTAL CONTINUOUS AND NON CONTINUOUS LOADS					54.1
FAULT CURRENT @ TRANSFORMER SECONDARY TERMINALS			SERVICE LOAD		
$\frac{\text{--- KVA (X-FORMER)}}{0.240 \times \text{--- \%Z}} = \text{--- AMPS}$			$\frac{54 \text{ KVA}}{0.240} = 225 \text{ AMPS}$		

NEW SERVICE LOAD SUMMARY					
OCCUPANCY TYPE - OFFICE			BUILDING AREA - 5,944 SQUARE FEET		
CONTINUOUS LOAD DESCRIPTION	LOAD (KVA)	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD (KVA)
INDOOR LIGHTING	7.7	TABLE 220.12	100%	TABLE 220.42	7.7
OUTDOOR LIGHTING	0.5	--	100%	--	0.5
SIGN LIGHTING	1.2	220.14 F	100%	--	1.2
AIR HANDLER FANS (SPLIT SYSTEMS)	0.8	ARTICLE 440	100%	--	0.8
AIR HANDLER ELECTRIC HEAT	44.0	422.12	100%	--	44.0
HVAC OUTDOOR UNIT	27.0	ARTICLE 440	100%	--	27.0
EXIST. WATER HEATERS	4.5	422.13	100%	--	4.5
SUBTOTAL CONTINUOUS LOADS					85.7
					230.42 A 1
					x 125%
					107.1
CONT. LOAD TOTAL					
NON CONTINUOUS LOAD DESCRIPTION					
RECEPTACLES UP TO 10 KVA	10.0	220.14 1	100% OF 1st 10 KVA		10.0
RECEPTACLES OVER 10 KVA	0.0	220.14 1	50% ABOVE 10 KVA		0.0
MISC. LOADS	5.0	--	NONCONTINUOUS LOAD x 100%		5.0
MISC. LOADS	0.0	--	NONCONTINUOUS LOAD x 100%		0.0
SUBTOTAL NON-CONTINUOUS LOADS					15.0
TOTAL CONTINUOUS AND NON CONTINUOUS LOADS					122.1
FAULT CURRENT @ TRANSFORMER SECONDARY TERMINALS			SERVICE LOAD		
$\frac{100 \text{ KVA (TRANSFORMER)}}{0.240 \times 1.5 \%Z} = 27,800 \text{ AMPS}$			$\frac{122 \text{ KVA}}{0.240} = 508 \text{ AMPS}$		



1 EXISTING ELECTRICAL RISER
SCALE: N.T.S.



NOTES:

1. PROVIDE A SIGN AT THE TRANSFER SWITCH INDICATING THE TYPE AND LOCATION OF THE STANDBY POWER SOURCE. SIGN SHALL READ "SECONDARY SOURCE IS DIESEL GENERATOR LOCATED ON SOUTH-EAST CORNER OF FIRE DEPARTMENT BUILDING."
2. FUSED DISCONNECT BETWEEN GENERATOR AND TRANSFER SWITCH SHALL BE SERVICE ENTRANCE RATED.

2 NEW ELECTRICAL RISER
SCALE: N.T.S.



114 E. 3rd STREET, GREENVILLE, NC 27858
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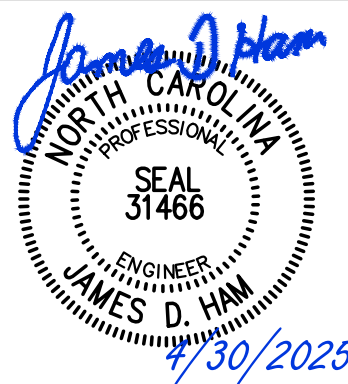
MAYSVILLE TOWN HALL

100 FICKLEN DRIVE, MAYSVILLE, NC 28555



P.O. BOX 11527 NC LC #: C-1132
GOLDSBORO, NC 27532
TEL: (919) 778-9064

PROJECT NO. 224011 PROJECT MGR. D. HAM DRAWN BY B. TRENT



REVISIONS:
| DESC: | DATE

DRAWN BY: DJH/SAL
PROJECT #: 23018
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

ELECTRICAL SCHEDULES

E3.02

NEW PANELBOARD SCHEDULE																
PANEL A	SURFACE MOUNTED				22K AIC				600 AMP (FEEDER SIZE)				1Ø, 3 WIRE			
MAIN BREAKER	BOTTOM FEED								120/240 VOLT				BOLT ON BREAKER			
NEMA 1	COPPER BUS								600 AMP (BUS RATING)				SURGE PROTECTION			
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD A	CKT NO.	PHASE A B				CKT NO.	LOAD A	CONDUIT SIZE	WIRE SIZE	LOAD SERVED			
HP-1	2#12 & 1#10G	3/4"	20	1	40	20	2	11	3/4	-	-	LIGHTS				
HP-2	2#10 & 1#10G	3/4"	23	5	50	20	6	11	3/4	-	-	LIGHTS				
HP-3	2#12 & 1#10G	3/4"	20	9	40	20	8	4	3/4	-	-	SIGN				
HP-4	2#12 & 1#10G	3/4"	14	13	25	20	10	3	3/4	-	-	EXTERIOR LIGHTS				
HP-5	2#12 & 1#12G	3/4"	10	17	20	20	12	-	-	-	-	SPARE				
HP-6	2#12 & 1#10G	3/4"	20	21	40	20	14	-	-	-	-	SPARE				
AH-1	2#6 & 1#10G	3/4"	41	25	60	20	16	-	-	-	-	SPARE				
AH-2	2#6 & 1#10G	3/4"	41	29	60	20	18	-	-	-	-	SPARE				
AH-3	2#6 & 1#10G	3/4"	41	33	60	20	20	-	-	-	-	SPARE				
AH-4	2#8 & 1#10G	3/4"	31	37	40	20	22	5	3/4"	2#12 & 1#12G	BOARD RECEIPT					
AH-5	2#12 & 1#10G	3/4"	20	41	20	20	24	3	3/4"	2#12 & 1#12G	BOARD RECEIPT					
AH-6	2#6 & 1#10G	3/4"	41	45	60	20	26	3	3/4"	2#12 & 1#12G	BOARD RECEIPT					
SPARE	-	-	-	49	20	20	28	9	3/4"	2#10 & 1#10G	BOARD RECEIPT					
SPARE	-	-	-	51	20	20	30	11	3/4"	2#10 & 1#10G	BOARD RECEIPT					
SPARE	-	-	-	53	20	20	32	9	3/4"	2#10 & 1#10G	DMV OFFICE RECEIPT					
							34	11	3/4"	2#10 & 1#10G	DMV QUEUE RECEIPT					
							36	12	3/4"	2#10 & 1#10G	PROGRAM RECEIPT					
							38	3	3/4"	2#10 & 1#10G	PROGRAM RECEIPT					
							40	8	3/4"	2#8 & 1#8G	PROGRAM RECEIPT					
							42	9	3/4"	2#10 & 1#10G	PROGRAM RECEIPT					
							44	4	3/4"	2#10 & 1#10G	PROGRAM RECEIPT					
							46	4	3/4"	2#10 & 1#10G	PROGRAM RECEIPT					
							48	-	-	-	SPARE					
							50	-	-	-	SPARE					
							52	53	2"	3#3/0 & 1#6G	PANEL B					
							54	57								

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS.
COORDINATE BREAKERS, DISCONNECTS, AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS.
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

1 WIRE THROUGH PHOTOCELL.

SURGE PROTECTION NOTES:

- SURGE SUPPRESSION SHALL BE RATED AS FOLLOWS:
 - FACTORY INSTALLED AS AN INTEGRAL PART OF INDICATED PANELBOARDS, COMPLYING WITH UL 1449, 5TH EDITION, SPD TYPE 2
 - MINIMUM SINGLE-PULSE SURGE CURRENT WITH STAND RATING PER PHASE SHALL NOT BE LESS THAN 250KA FOR SERVICE ENTRANCE PANELS AND 150KA FOR SUB-PANELS. THE PEAK SURGE CURRENT RATING SHALL BE THE ARITHMETIC SUM OF THE RATINGS OF THE INDIVIDUAL MOVES IN A GIVEN MODE.
 - LET-THROUGH VOLTAGES BASED ON IEEE TEST WAVES SHALL BE CAT C1 (6KV, 3KA) 400V FOR 208V PANEL AND 800V FOR 480V PANELS.
 - PROTECTION MODES AND UL1449VPR SHALL BE: 700V LINE TO NEUTRAL, 700V LINE TO GROUND, 600V NEUTRAL TO GROUND, & 1000V LINE TO LINE.
 - SHORT CIRCUIT CURRENT RATING GREATER THAN PANELBOARD
 - INOMINAL RATING OF 20KA.

CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING = 4.4	100%	= 4.4
OUTDOOR LIGHTING = 0.4	100%	= 0.4
RECEPTACLES (1ST 10 KVA) = 10.0	100%	= 10.0
RECEPTACLES (ABV 10 KVA) = 1.2	50%	= 0.6
HVAC = 77.3	100%	= 77.3
HVAC (NON-COINCIDENTAL) = 0%	0%	= 0
SUB PANEL = 12.7	0%	= 12.7
TOTALS: = 106.0 KVA		= 105.4 KVA
MINIMUM PANEL SIZE: 105 KVA X 125% = 132 KVA		(317 AMPS)
GROSS PHASE TOTALS (AMPS) A = 450 B = 437		

AUTOMATIC TRANSFER SWITCH SCHEDULE							
MARK	TRANSITION TYPE	VOLTS/PH/WIRES	RATING	ENCLOSURE	S.C. WITHSTAND	NO. POLES	S.E. RATED
ATS-1	DELAYED TRANSITION	120/240 1Ø 3W	600A	NEMA 3R	35 kAIC	2	YES

NOTES:

- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
 - MICROPROCESSOR BASED CONTROLLER
 - 3 POSITION CONTACTOR
 - UL1008 LISTED
 - GENERATOR AND UTILITY UNDER VOLTAGE CONTROL SETPOINT
 - UTILITY RETURN TIMER
 - ENGINE START CONTACT
 - SHORT CIRCUIT RATING BASED ON ANY UPSTREAM BREAKER
 - 5 YEAR WARRANTY

NEW PANELBOARD SCHEDULE																
PANEL B		SURFACE MOUNTED				22K AIC				200 AMP (FEEDER SIZE)				1ø, 3 WIRE		
MAIN BREAKER		BOTTOM FEED								120/240 VOLT				BOLT ON BREAKER		
NEMA 1		COPPER BUS								200 AMP (BUS RATING)				SURGE PROTECTION		
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD A	LOAD B	CKT NO.	PHASE A		PHASE B		CKT NO.	LOAD A	LOAD B	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
MTG RM RECEPT	2#12 & 1#12G	3/4"	8	1	20	20	•	20	20	2	-	-	-	-	SPARE	
TOWN MGR RECEPT	2#12 & 1#12G	3/4"	8	3	20	20	•	20	20	4	-	-	-	-	SPARE	
REFRIGERATOR	2#12 & 1#12G	3/4"	6	5	20	20	•	20	20	6	-	-	-	-	SPARE	
WORK RM RECEPT	2#12 & 1#12G	3/4"	12	7	20	20	•	20	20	8	-	-	-	-	SPARE	
WORK RM RECEPT	2#12 & 1#12G	3/4"	3	9	20	20	•	20	20	10	-	-	-	-	SPARE	
WORK RM RECEPT	2#12 & 1#12G	3/4"	6	11	20	20	•	20	20	12	-	-	-	-	SPARE	
SPARE	-	-	-	13	20	20	•	20	20	14	-	-	-	-	SPARE	
SPARE	-	-	-	15	20	20	•	20	20	16	-	-	-	-	SPARE	
RESTROOMS RECEPT	2#12 & 1#12G	3/4"	5	17	20	20	•	20	20	18	-	-	-	-	SPARE	
OFFICE RECEPT	2#12 & 1#12G	3/4"	2	19	20	20	•	20	20	20	-	-	-	-	SPARE	
OFFICE RECEPT	2#12 & 1#12G	3/4"	3	21	20	20	•	20	20	22	-	-	-	-	SPARE	
MEETING RECEPT	2#12 & 1#12G	3/4"	6	23	20	20	•	20	20	24	-	-	-	-	SPARE	
ADMIN RECEPT	2#10 & 1#10G	3/4"	9	25	20	20	•	20	20	26	-	-	-	-	SPARE	
SPARE	-	-	-	27	20	20	•	20	20	28	-	-	-	-	SPARE	
SPARE	-	-	-	29	20	20	•	20	20	30	-	-	-	-	SPARE	
WATER COOLER	2#12 & 1#12G	3/4"	4	31	20	20	•	20	20	32	-	-	-	-	SPARE	
WH-1	2#10 & 1#10G	3/4"	19	33	20	20	•	20	20	34	-	-	-	-	SPARE	
			19	35	20	20	•	20	20	36	-	-	-	-	SPARE	
SPARE	-	-	-	37	20	20	•	20	20	38	-	-	-	-	SPARE	
SPARE	-	-	-	39	20	20	•	20	20	40	-	-	-	-	SPARE	
SPARE	-	-	-	41	20	20	•	20	20	42	-	-	-	-	SPARE	

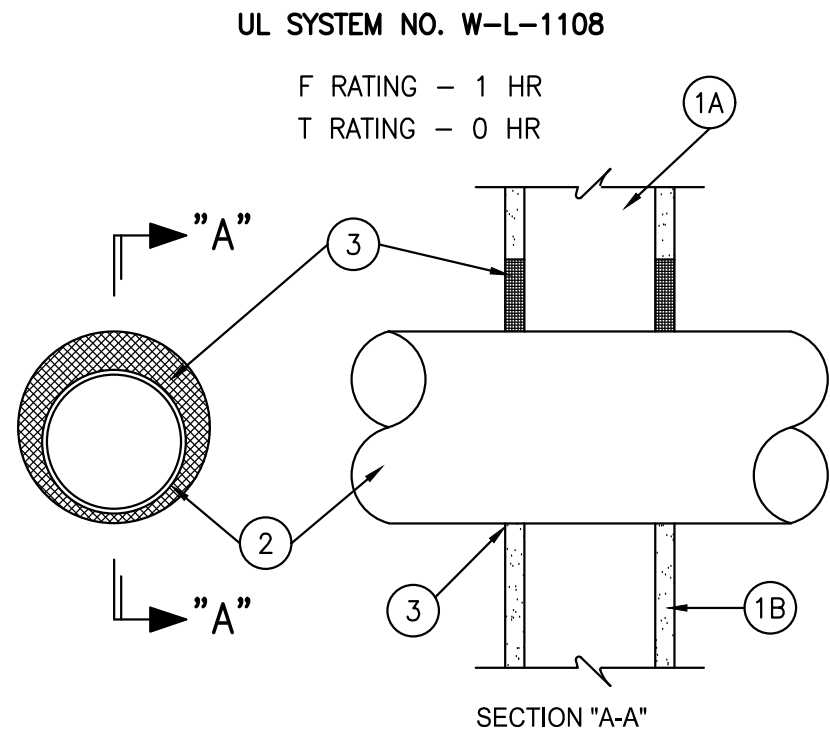
COORDINATE BREAKERS, DISCONNECTS, AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS.
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

1 PROVIDE WITH CLASS "A" (6ma) GFCI BREAKER IN ACCORDANCE WITH UL 489.

SURGE PROTECTION NOTES:

- SURGE SUPPRESSION SHALL BE RATED AS FOLLOWS:
 - FACTORY INSTALLED AS AN INTEGRAL PART OF INDICATED PANELBOARDS, COMPLYING WITH UL 1449, 5TH EDITION, SPD TYPE 2
 - MINIMUM SINGLE-PULSE SURGE CURRENT WITH STAND RATING PER PHASE SHALL NOT BE LESS THAN 250KA FOR SERVICE ENTRANCE PANELS AND 150KA FOR SUB-PANELS. THE PEAK SURGE CURRENT RATING SHALL BE THE ARITHMETIC SUM OF THE RATINGS OF THE INDIVIDUAL MOVES IN A GIVEN MODE.
 - LET-THROUGH VOLTAGES BASED ON IEEE TEST WAVES SHALL BE CAT C1 (6KV, 3KA) 400V FOR 208V PANEL AND 800V FOR 480V PANELS.
 - PROTECTION MODES AND UL1449VPR SHALL BE: 700V LINE TO NEUTRAL, 700V LINE TO GROUND, 600V NEUTRAL TO GROUND, & 1000V LINE TO LINE.
 - SHORT CIRCUIT CURRENT RATING GREATER THAN PANELBOARD
 - INOMINAL RATING OF 20KA.

CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING = 4.4	100%	= 4.4
OUTDOOR LIGHTING = 0.4	100%	= 0.4
RECEPTACLES (1ST 10 KVA) = 10.0	100%	= 10.0
RECEPTACLES (ABV 10 KVA) = 1.2	50%	= 0.6
HVAC = 77.3	100%	= 77.3
HVAC (NON-COINCIDENTAL) = 0%	0%	= 0
WATER HEATERS = 4.6	100%	= 4.6
DEDICATED RECP/EQUIP = 1.1	100%	= 1.1
TOTALS: = 13.2 KVA		= 13.2 KVA
MINIMUM PANEL SIZE: 13 KVA X 125% = 17 KVA		(40 AMPS)
GROSS PHASE TOTALS (AMPS) A = 53 B = 57		



- WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. O.C.
 - WALLBOARD, GYPSUM* - ONE LAYER OF NOM 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAXIMUM DIAMETER OF OPENING IS 11-3/4 IN.
- THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
 - STEEL PIPE - NOM 10 IN. DIA. (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - IRON PIPE - NOM 10 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - CONDUIT - NOM 2 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER TUBING - NOM 2 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER PIPE - NOM 2 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
- FILL, VOID OR CAVITY MATERIAL*-CAULK- MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL, A MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WALL/PIPE INTERFACE ON BOTH SURFACES OF WALL.

THE RECTORSEAL CORP.-METACAULK 1000 *BEARING THE UL CLASSIFICATION MARKING

FIRESTOP MATERIALS BY 3M AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

1 UL 1 HOUR GYPBOARD WALL PENETRATION DETAIL
SCALE: N.T.S.

ELECTRICAL LEGEND			
SYM.	DESCRIPTION	REF. MODEL NO.	REMARKS
Ⓜ	JUNCTION BOX	–	DOUBLE GANG UNO
Ⓜ Ⓢ	THERMOSTAT OR SENSOR JUNCTION BOX	–	MOUNT 48" TOD AFF UNO
Ⓜ	NON–FUSED DISCONNECT	–	–
Ⓜ	FUSED DISCONNECT	–	–
ⓂDT	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY (LOW VOLTAGE)	WATTSTOPPER DT–305	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
ⓂDT	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY (LINE VOLTAGE – 800W)	WATTSTOPPER DT–355	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
ⓂUS	CEILING OCCUPANCY SENSOR (LOW VOLTAGE)	WATTSTOPPER WT–1105 OR WT–2205	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
ⓂOS	WALL SWITCH WITH OCCUPANCY SENSOR (PASSIVE INFRARED)	WATTSTOPPER PW–100, OR EQUAL	–
ⓂOS	WALL SWITCH WITH OCCUPANCY SENSOR (PASSIVE INFRARED)	WATTSTOPPER PW–103, OR EQUAL	MULTI–WAY CONTROL UP TO FOUR SWITCH LOCATIONS
ⓂD,OS	DIMMING WALL SWITCH WITH OCC SENSOR (0–10VDC DIMMING & DUAL TECH)	WATTSTOPPER DW–311	MULTI–WAY CONTROL UP TO FOUR SWITCH LOCATIONS
Ⓜ	SWITCH	HUBBELL CSB120x	–
ⓂD	0–10V DIMMER SWITCH	HUBBELL PSD710–UNV	STAND ALONE CONTROL
ⓂD	0–10V DIMMER SWITCH (VACANCY APP)	HUBBELL LVSD–M	FOR USE WITH CEILING OCC SENSOR AND POWER PACK
ⓂD	0–10V DIMMER SWITCH (OCCUPANCY APP)	HUBBELL LVSD–L	FOR USE WITH CEILING OCC SENSOR AND POWER PACK
ⓂM	MANUAL MOTOR SWITCH	SIEMENS MMS	MOUNT AS REQUIRED
ⓂOHD	OVERHEAD DOOR CONTROL	–	MOUNT AS REQUIRED
Ⓜ	EMERGENCY LIGHT	–	SOLID FILL HATCHING
Ⓜ	RECEPTACLE	HUBBELL HBL5352x	HBL5362C2x FOR CONTROLLED RECEPTACLE
ⓂWR	WEATHER RESISTANT	HUBBELL HBL5362xWR	–
ⓂGFI	GROUND FAULT RECEPTACLE	HUBBELL GFRST20x	SELF TESTING PER UL 943
ⓂWR GFI	GROUND FAULT, WEATHER RESIST RECEPT.	HUBBELL GFTWRST20x W/"IN USE" COVER	SELF TESTING PER UL 943
ⓂCLG	CEILING RECEPTACLE	–	–
ⓂS	SPECIAL RECEPTACLE	–	COORDINATE WITH EQUIPMENT
ⓂFLR	FLOOR RECEPTACLE	–	REFER TO FLOOR BOX DETAILS
Ⓜ▽FLR	FLOOR RECEPTACLE	–	REFER TO FLOOR BOX DETAILS
Ⓜ	DOUBLE DUPLEX RECEPTACLE	HUBBELL (2) HBL5352x	–
XX–YY	XX=PANEL YY=CIRCUIT IDENTIFIER	–	–
▽	DATA/PHONE OUTLET	–	DOUBLE GANG UNO
▽HDMI FP	WALL FLAT PANEL OUTLETS	–	DOUBLE GANG UNO (1) RJ45 TO DATA RM & (1) HDMI TO SWITCH
ⓂCR	DOOR CARD READER	–	SEE SECURITY DOOR DETAILS
ⓂBC	WINDOW BLIND CONTROLS	–	SEE ARCH DRAWINGS FOR DETAILS
Ⓜ	PUSH BUTTON ADA DOOR CONTROL	–	–
NOTES:			
1. STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS.			
2. E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ARCHITECT, OWNER AND/OR G.C.			
3. PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR EQUAL PRODUCT.			
4. PROVIDE LOW VOLTAGE OCCUPANCY SENSORS WITH POWER PACKS AS REQUIRED.			
ABBREVIATIONS:			
G.C.	GENERAL CONTRACTOR	AFG	ABOVE FINISHED GRADE
P.C.	PLUMBING CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
M.C.	MECHANICAL CONTRACTOR	CL	CENTERLINE OF DEVICE
E.C.	ELECTRICAL CONTRACTOR	BOD	BOTTOM OF DEVICE
AFF	ABOVE FINISHED FLOOR	TOD	TOP OF DEVICE

DEMOLITION NOTES:

- PRIOR TO SUBMITTING A BID, CONTRACTOR MUST VISIT THE JOB SITE IN ORDER TO HAVE A WORKING KNOWLEDGE OF THE EXISTING SYSTEMS AND CONDITIONS.
- DEMOLITION PLANS SHOW APPROXIMATE LOCATIONS OF EXISTING ELECTRICAL SYSTEMS. ALL ITEMS ENCLOSED IN THE STRUCTURE MAY NOT BE NOTED OR MAY BE SHOWN SCHEMATICALLY. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL TERMINATIONS AND RECONNECTIONS REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM. INFORMATION IS BASED ON NON–DESTRUCTIVE FIELD INVESTIGATION AND/OR EXISTING DRAWING INFORMATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONDITIONS THAT REQUIRE CORRECTIVE ACTION BEYOND THE SCOPE OF THESE PLANS. ALL FIELD CORRECTIONS SHALL BE RED–LINED AND PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- ALL ABANDONED CONCEALED CONDUIT NOT READILY REMOVABLE SHALL BE CAPPED BELOW FINISH SURFACES.
- REMOVE ALL ACCESSIBLE CONDUIT AND DEVICES ON CIRCUITS BEING REMOVED. WIRING SHALL BE REMOVED BACK TO PANELS. BREAKERS SHALL REMAIN AND LABELED AS SPARE. UPDATE PANEL SCHEDULES MATCHING THE MODIFIED CONDITION.
- GENERAL CONTRACTOR SHALL REPAIR ALL WALL, FLOOR & CEILING OPENINGS FROM DEMOLITIONS OF ELECTRICAL WORK. FINISH SURFACES SHALL BE RESTORED TO MATCH ORIGINAL CONDITION. ELECTRICAL CONTRACTOR SHALL TAKE EXTREME CARE TO AVOID EXCESSIVE DAMAGE TO EXISTING SURFACES.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AND WASTE MATERIAL OF DEMOLITION & CONSTRUCTION UNLESS DIRECTED OTHERWISE. THE OWNER RESERVES THE RIGHT TO RETAIN ANY ITEM WHETHER NOTED ON PLANS OR NOT.
- CONTRACTOR SHALL REMOVE ALL ABANDONED CONDUIT AND WIRE.
- IN GENERAL, ALL DEVICES SHOWN WITH LIGHT PEN WEIGHT ARE EXISTING AND TO REMAIN. DEVICES WITH HEAVY PEN WEIGHT ARE NEW.

LIGHT FIXTURE SCHEDULE																								
MARK	DESCRIPTION	REF	MANF	MODEL NUMBER FOR FIXTURE QUALITY AND APPEARANCE	SOURCE	LED LUMENS	COLOR TEMP	CRI	FIXTURE INPUT WATTS	VOLTS	INSTALLATION NOTES										REMARKS			
											MULTI-VOLT INPUT	DIMMING TO 100%	BATTERY BACK-UP	BATTERY BACK-UP	ELECTRONIC BALLAST	DAMP LOCATION	WET LOCATION	STANDARD COLOR	CUSTOM COLOR					
A	2x4 LED VOLUMETRIC	LITHONIA		2BLT4 40L ADSM GZ1 LP840	LED	4,000	40K	82	31	120	●	●												
A1	2x4 LED VOLUMETRIC (EMERGENCY)	LITHONIA		2BLT4 40L ADSM GZ1 LP840 E10WLCP	LED	4,000	40K	82	31	120	●	●	●											
A2	2x4 LED VOLUMETRIC (SURFACE MOUNT KIT)	LITHONIA		2BLT4 40L ADSM GZ1 LP840 2X4SMKSH PAF	LED	4,000	40K	82	31	120	●	●												
A3	2x4 LED VOLUMETRIC (EMERGENCY) (SURFACE MOUNT KIT)	LITHONIA		2BLT4 40L ADSM GZ1 LP840 EL14L 2X4SMKSH PAF	LED	4,000	40K	82	31	120	●	●	●											
B	2x4 LED VOLUMETRIC	LITHONIA		2BLT4 48L ADSM GZ1 LP840	LED	5,000	40K	82	39	120	●	●	●											
B1	2x4 LED VOLUMETRIC (EMERGENCY)	LITHONIA		2BLT4 48L ADSM GZ1 LP840 EL14L	LED	5,000	40K	82	39	120	●	●	●											
C	2x2 LED VOLUMETRIC	LITHONIA		2BLT2 48L ADSM GZ1 LP840	LED	5,000	40K	82	43	120	●	●												
C1	2x2 LED VOLUMETRIC (EMERGENCY)	LITHONIA		2BLT2 48L ADSM GZ1 LP840 EL14L	LED	5,000	40K	82	43	120	●	●	●											
D	6" RECESSED DOWNLIGHT	LITHONIA		LDN6 AL04 40K L06 AR LSS MVOLT UGZ1	LED	4,000	40K	80	39	120	●	●												
D1	6" RECESSED DOWNLIGHT (EMERGENCY)	LITHONIA		LDN6 AL04 40K L06 AR LSS MVOLT UGZ1 E10WCP	LED	4,000	40K	80	39	120	●	●	●											
F	LINEAR DIRECT/INDIRECT PENDANT	PEERLESS		BRM9L LLP 80CRI 40K ID2000LMF 20/80 MIN1 MVOLT SCT F3/36A	LED	4,000	40K	80	16/FT	120	●	●												
F1	LINEAR DIRECT/INDIRECT PENDANT (EMERGENCY)	PEERLESS		BRM9L LLP 80CRI 40K ID2000LMF 20/80 MIN1 MVOLT SCT_E10WLCP F3/36A	LED	4,000	40K	80	16/FT	120	●	●	●											
G	DECORATIVE PENDANT	LIGHTART		3 QTY LA2-ESS-LOOP-BH-840CK-STD-WPC-WH	LED	7,500	40K	80	75	120	●	●									●			
EXIT	EXIT LIGHT	LITHONIA		LQM S W R 120/277	LED	-	-	-	4	120			●			●								
EXTERIOR LIGHTS																								
XA	EXTERIOR WALL PACK	LITHONIA		WST LED P2 40K VF MVOLT	LED	3,500	40K	70	25	120	●						●	●						
XA1	EXTERIOR WALL PACK (EMERGENCY)	LITHONIA		WST LED P2 40K VF MVOLT E20WC	LED	3,500	40K	70	25	120	●	●					●	●						
XB1	EXTERIOR AFFINITY (EMERGENCY)	LITHONIA		AFF OEL UVOLT LTP SDRT FCT CW	LED	635	-	-	3	120	●	●					●	●	●					
XC1	EXTERIOR SCONCE (EMERGENCY)	ECLIPSE		BSC-TRITON-BSC-TR-XL1-LED4K-80CRI-UNV-BZ-CB-SG-EL10W-CW	LED	1300	40K	80	30	120	●	●					●	●	●					

- PROVIDE EXIT LIGHTS WITH SINGLE OR DOUBLE–FACE AS REQUIRED, CHEVRON DIRECTIONAL INDICATORS, MOUNTING BRACKETS AND NICKEL CADMIUM BATTERY BACKUP.
- BATTERIES INSTALLED OUTDOORS SHALL BE RATED –4°F TO 130°F.
- BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES PER NC FIRE CODE SECTION 1006.3 & 1011.5.3. BATTERIES SHALL BE TESTED PER NEC 700.12(A).
- PRODUCTS LISTED ARE DESIGN BASIS. EQUAL SUBSTITUTION SUBMITTALS FROM ACUTY, PHILIPS, COOPER, OR HUBBELL WILL BE EVALUATED.
- CONTRACTOR SHALL SUBMIT LIGHTING PLAN SHEET(S) WITH SCHEDULE TO SUPPLIER FOR FIXTURE SELECTION.

ELECTRICAL NOTES:

- ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT. THIS INCLUDES ALL REQUIRED CONTROL WIRING OR WIRING CALLED FOR BY THE MANUFACTURER. INSTALLATION SHALL FOLLOW ALL MANUFACTURER’S RECOMMENDATIONS.
- CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- ALL WORK SHALL COMPLY WITH THE 2020 VERSION OF THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. BY APPROVAL AND SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO THE ENGINEER, THE CONTRACTOR REPRESENTS THAT IT HAS DETERMINED AND VERIFIED AND CHECKED THE INFORMATION WITHIN THE SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE ON SUBMITTAL OF ANY DEVIATIONS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT DOCUMENTS REQUIREMENTS BY THE ARCHITECTS APPROVAL OF SHOP DRAWINGS OR OTHER SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF THE SUBMITTAL AND SUCH DEVIATION HAS BEEN APPROVED IN WRITING.
- PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS. COORDINATE LOCATION AND WIRING OF DEVICES WITH OTHER TRADES OR SUPPLIERS OF EQUIPMENT SUCH AS: ELEVATOR, FIRE PUMP AND FIRE PROTECTION PLANS, KITCHEN HOOD, KITCHEN COOLER, ETC. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FIELD WIRING OF SPECIALTY ITEMS UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDED BY E.C.. INTERLOCK WIRING SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE CONTROL DEVICE.
- ALL WIRING, PANELBOARDS, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC.
- PROVIDE THHN/THWN COPPER WIRE (UL 83 LISTED). PROVIDE A MINIMUM WIRE SIZE OF #12. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC TABLE 310.16 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110.14(C). OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS. ALL EQUIPMENT FEEDERS SHALL BE RUN CONTINUOUS FROM THE BREAKER TO THE DISCONNECT SWITCH; SPLICES ARE NOT ALLOWED.
- COLOR CODING OF WIRE SHALL BE AS FOLLOWS:

240/120V PHASE A BLACK
PHASE B RED
NEUTRAL WHITE
EQ. GROUND GREEN
- PROVIDE LABELS ON ALL RECEPTACLES IDENTIFYING PANEL AND CIRCUIT NUMBER. LABELS SHALL BE BRADY CLEAR POLYESTER 1"W x 0.375"H OR PANUIT EQUAL WITH BLACK LETTERING. MARK ALL JUNCTION BOXES ABOVE CEILING INDICATING PANEL AND CIRCUIT NUMBER USING PERMANENT MARKER. PROVIDE PHENOLIC LABEL ON EXTERIOR BOXES WITH EQUIPMENT DESCRIPTION, AND PANEL AND CIRCUIT NUMBER. BOXES SHALL NOT BE INSTALLED IN AN INACCESSIBLE LOCATION.
- PROVIDE MINIMUM 3/4" CONDUIT FOR ALL WIRING. ALL RACEWAYS SHALL BE INSTALLED WITHIN WALLS, INCLUDING BLOCK, UNLESS NOTED OTHERWISE. FLEXIBLE METAL CONDUIT WITH A MAXIMUM LENGTH OF 6' MAY BE USED FOR THE CONNECTION OF LIGHT FIXTURES TO JUNCTION BOXES. EMT OR RIGID SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE. CONDUIT ABOVE GRADE SHALL BE STEEL. EMT SHALL NOT BE USED IN DIRECT CONTACT WITH THE EARTH, EXTERIOR LOCATIONS, OR WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE. FITTINGS ON EMT CONDUIT SHALL BE COMPRESSION TYPE. FITTINGS ON IMC OR RGS SHALL BE THREADED. MOTOR CONNECTIONS SHALL BE MADE WITH FMC, MIN. 18" LONG AND MAX 36". USE PVC JACKETED FLEXIBLE LIGHT TIGHT CONDUIT TYPE UA FOR CONNECTIONS IN WET LOCATIONS. LOCATE JUNCTION AND PULL BOXES SUCH THAT THEY REMAIN ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE.
- PROVIDE 3/4–INCH EMPTY CONDUITS TERMINATING ABOVE THE CEILING FOR ALL HVAC THERMOSTATS. JUNCTION BOXES SHALL MATCH ORIENTATION OF THERMOSTATS PROVIDED BY M.C.. MOUNT JUNCTION BOXES 48–INCHES A.F.F. UNLESS NOTED OTHERWISE. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT.
- PROVIDE ONE–INCH CONDUITS EXTENDING ABOVE CEILING FOR ALL TELEPHONE AND DATA OUTLETS SHOWN ON PLANS. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT. SEE PLAN DETAILS FOR CABLE REQUIREMENTS AT EACH LOCATION. PROVIDE 12 INCH SERVICE LOOP ABOVE EACH OUTLET. PROVIDE J–HOOKS ON MAXIMUM 30" SPACING. INSTALL J–HOOKS APPROXIMATELY 12–24 INCHES ABOVE CEILING WHEN POSSIBLE FOR EASY FUTURE ACCESS. SUPPORTS SHALL ALLOW FOR 20 PERCENT FUTURE WIRING. PENETRATIONS THROUGH FIRE WALLS SHALL BE MADE WITH CONDUITS.
- LARGE BUNDLES OF DATA CABLES SHALL BE COMBED AND TIE–WRAPPED IN NEAT BUNDLES. TIE–WRAPS SHALL BE HOOK AND LOOP OR RELEASABLE TYPE. PROVIDE EIGHT–POSITION MODULAR, IDC–TYPE JACKS ON BOTH ENDS OF DATA CABLES EQUAL TO RATING OF CABLE. PROVIDE FACEPLATES OF MATERIAL EQUAL TO RECEPTACLE FACEPLATE UNLESS NOTED OTHERWISE. TERMINATE ALL DATA/PHONE CABLES ON BOTH ENDS AND COMPLYING WITH ANSI/TIA–568–C.1. LABEL CABLES ON BOTH ENDS AND PATCH PANELS FRONT AND REAR WITH OWNER’S STANDARD LABELING. PROVIDE PATCH PANEL QUANTITY TO MATCH CABLE QUANTITY PLUS 10% SPARE. PROVIDE LABELING, TESTING AND MAPPING OF ALL CABLES AND SUBMIT REPORT TO OWNER. SWITCHES, HUBS, UPS, PATCH CABLES PROVIDED BY OWNER. INSTALL CABLE WITH 10 FEET OF SLACK NEAR THE EQUIPMENT RACKS. SLACK CABLE SHALL NOT BE COILED, BUT STORED IN A FIGURE 8, "U" OR "S" PATTERN.

ELECTRICAL NOTES CONTINUED:

- PROVIDE MACHINE TYPED PANEL SCHEDULES IN EACH PANEL INDICATING THE SPECIFIC LOAD DESCRIPTION FOR EACH BREAKER PER NEC 408.4 (GENERAL DESCRIPTIONS SUCH AS "RECEPTACLE" ARE NOT ALLOWED. INDICATE ROOM NUMBERS FOR EACH LOAD.) LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE, CURRENT RATING AND PHASE. PROVIDE ALL PANELBOARDS, SWITCHBOARDS, CONTROL PANELS, ETC. WITH WARNING SIGN FOR POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. PROVIDE PHENOLIC LABEL FOR SUB–PANELS DENOTING POWER SOURCE PER NEC 408.4(B) READING "FED FROM PANEL –".
- PROVIDE NEW GROUNDING SYSTEM. GROUND RODS SHALL BE COPPER CLAD STEEL, DIAMETER OF 3/4" x 10' LENGTH MINIMUM. SPACE RODS SUCH THAT THERE IS A MINIMUM OF 10 FEET SPACING BETWEEN RODS. DRIVE RODS 6 INCHES BELOW GRADE. CONNECTIONS TO RODS SHALL BE BY EXOTHERMIC WELDS OR COMPRESSION CONNECTORS. GROUNDING TO BUILDING STEEL FOR SERVICE CONNECTION AND ANY SEPARATELY DERIVED SYSTEM SHALL BE BY EXOTHERMIC WELD.
- PROVIDE HEAVY DUTY FUSED AND NON–FUSED DISCONNECT SWITCHES AS INDICATED ON PLANS. DISCONNECTS LOCATED OUTSIDE SHALL BE NEMA–3R. PROVIDE REJECTION CLIPS IN FUSED DISCONNECTS. LABEL DISCONNECT WITH PHENOLIC LABEL INDICATING PANEL AND CIRCUIT NUMBER FEEDING EQUIPMENT.
- PROVIDE NEMA (IEC NOT ALLOWED) HORSEPOWER RATED STARTERS AND DISCONNECTS WHEN CONNECTED TO MOTORS. STARTERS SHALL BE PROVIDED WITH OVERLOAD SIZED TO MATCH MOTOR RATINGS. PROVIDE WITH ENCLOSURE RATED FOR THE INSTALLED ENVIRONMENT WITH PADLOCK GUARD FOR LOCKING IN THE "OFF" OR "STOP" POSITION.
- PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS. LIGHTING INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID SYSTEM WITH #12 WIRE. SECURE FIXTURES TO CEILING FRAMING MEMBER BY MECHANICAL MEANS PER NEC 410.36. LIGHTING CIRCUITS SHALL NOT SHARE NEUTRALS. LED FIXTURES SHALL CONTAIN COMPONENTS THAT ARE MODULAR IN DESIGN AND EASILY REPLACEABLE/UPGRADABLE. COORDINATE LOCATION OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS. THE E.C. SHALL BE RESPONSIBLE FOR ENSURING ALL COMPONENTS (FIXTURES, LED DRIVERS, AND CONTROLS) ARE FULLY COMPATIBLE PRIOR TO ORDERING. PROVIDE ALL REQUIRE MOUNTING HARDWARE, CONNECTORS, AND FIXTURE OPTIONS TO PROVIDE A COMPLETE AND OPERATIONAL INSTALLATION.
- FIXTURE WHIPS TO DIMMABLE LED DRIVERS SHALL BE A MAXIMUM OF 6–FEET LONG, PRE–MANUFACTURED WITH CONTROL WIRING INTERNAL TO THE FMC MEETING BOTH UL AND NEC REQUIREMENTS. THE CONTROL WIRING SHALL MEET NEC SECTION 300.3(C)(1) AND 725.136. CLASS 2 OR 3 CIRCUITS SHALL BE 16/2 PVC JACKETED WITH GRAY AND PURPLE STRANDED CONDUCTORS.
- PROVIDE EMERGENCY AND EXIT LIGHTS AS SHOWN ON PLANS. PER NFPA 101 SECTION 7.10.1.9. POWER SHALL BE PROVIDED FROM LIGHTING CIRCUITS ON THE UNSWITCHED LEG OF THE CIRCUIT SUCH THAT POWER TO THE EMERGENCY AND EXIT LIGHTS IS NOT DISCONNECTED WHEN NORMAL LIGHTING IS OFF. EXTERIOR EMERGENCY LIGHTS SHALL BE WIRED SUCH THAT PHOTOCELL AND/OR TIME CLOCK OPERATION DOES NOT DISCONNECT POWER TO BATTERIES. EMERGENCY UNIT EQUIPMENT AND BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES. BATTERIES SHALL BE TESTED PER NEC 700.12(A).
- OCCUPANCY SENSORS IN RESTROOMS, CORRIDORS AND OPEN OFFICE AREAS SHALL BE ULTRASONIC ONLY. SENSOR LOCATIONS ARE APPROXIMATE; REFER TO MANUFACTURER’S INSTALLATION INSTRUCTIONS. ULTRASONIC SENSORS SHALL NOT BE LOCATED CLOSER THAN 4 FEET FROM AIR SUPPLY/RETURN REGISTERS. VERIFY ALL COVERAGE AREAS OF SENSORS AS THEY VARY BETWEEN MANUFACTURERS. NO SENSOR SHALL BE INSTALLED MORE THAN 12 FEET A.F.F., UNLESS NOTED OTHERWISE OR ALLOWED BY MANUFACTURER’S RECOMMENDATIONS. ALL REQUIRED POWER PACKS AND OTHER ACCESSORIES SHALL BE PROVIDED FOR A COMPLETE OPERATIONAL SYSTEM. INSTALL CONTROL DEVICES/POWER PACKS IN ACCESSIBLE J–BOX. OCCUPANCY SENSOR DEVICES INDICATED ON THE PLANS SHOW THE INTENT FOR LIGHTING CONTROL AND MINIMUM DEVICE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OCCUPANCY SENSOR MANUFACTURER TO DETERMINE PROPER TECHNOLOGY AND PLACEMENT OF THE SENSORS. ADDITIONAL SENSOR DEVICES MAY BE REQUIRED BEYOND THOSE SHOWN ON THE PLANS TO PROVIDE COMPLETE COVERAGE OF THE SPACE, WHICH SHALL BE PROVIDED AT NO COST TO THE OWNER.
- RECEPTACLES SHALL BE FEDERAL SPECIFICATION GRADE, 20 AMP, 120V, AND MOUNTED VERTICALLY UNLESS NOTED OTHERWISE.
- RECEPTACLES WITHIN 6 FT. OF THE EDGE OF SINKS & LAVATORIES SHALL BE GROUND FAULT CIRCUIT–INTERRUPTING. ALL KITCHEN RECEPTACLES, INDOOR WET LOCATIONS, LOCKER ROOMS WITH SHOWERS, GARAGES, SERVICE BAYS AND THOSE RECEPTACLES FEEDING VENDING MACHINES AND WATER COOLERS SHALL BE PROVIDED WITH GROUND FAULT CIRCUIT–INTERRUPTER PROTECTION.
- RECEPTACLES INSTALLED OUTSIDE OR IN WET LOCATIONS SHALL BE LISTED AS WEATHER–RESISTANT TYPE AND HAVE GROUND FAULT CIRCUIT–INTERRUPTER PROTECTION. PROVIDE WITH "IN USE", CAST ALUMINUM WEATHERPROOF COVERS IDENTIFIED AS "EXTRA DUTY" PER NEC 406.9(B).
- THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS FOR DEVICE LOCATIONS PRIOR TO ROUGH–IN OF OUTLETS. COORDINATE WITH OWNER FOR SIGN–OFF OF JUNCTION BOX ROUGH–IN FOR RECEPTACLES AND DATA OUTLETS. SHEETROCK SHALL NOT BE INSTALLED BEFORE OWNER SIGN–OFF IS COMPLETED.
- OBTAIN CUT SHEETS, INSTALLATION DATA, AND ROUGH–IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT. COORDINATE ROUGH–IN AND POWER REQUIREMENTS WITH THE OWNER’S REPRESENTATIVE PRIOR TO STARTING ANY ASSOCIATED WORK.
- WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.
- PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TO MATCH DEVICE. BRUSHED STAINLESS STEEL (RECEPTACLES, DATA, AND BLANKS)
- MEMBRANE PENETRATIONS OF MAXIMUM 2–HOUR FIRE–RESISTANCE RATED WALLS AND PARTITIONS BY STEEL ELECTRICAL BOXES THAT DO NOT EXCEED 16 SQUARE INCHES IN AREA, INSTALLED ON OPPOSITE SIDES OF THE WALL OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR PROTECTED WITH LISTED PUTTY PADS. THE ANNULAR SPACE BETWEEN THE WALL MEMBRANE AND THE BOX SHALL NOT EXCEED 1/8". THE USE OF LISTED ELECTRICAL BOXES WHICH HAVE BEEN TESTED FOR USE IN FIRE–RESISTANCE–RATED ASSEMBLIES SHALL BE INSTALLED PER MANUFACTURES INSTRUCTIONS.
- ALL ELECTRICAL COMPONENTS AND FIXTURES SHALL BE CLEANED & POLISHED. PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
- GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1–YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.



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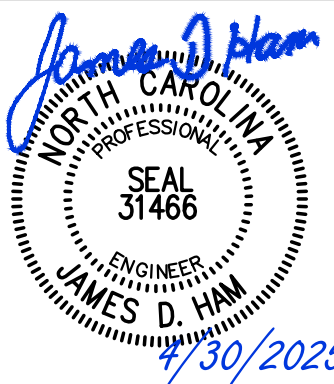
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PHASE:

CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

ELECTRICAL NOTES

E4.01